

UNIVERSITY OF LJUBLJANA | 2020
SCHOOL OF ECONOMICS AND BUSINESS

2020

RESEARCH ANNUAL REPORT



UNIVERSITY OF LJUBLJANA
**SCHOOL OF ECONOMICS
AND BUSINESS**

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A WORD FROM THE VICE-DEAN



What a year! At the beginning of 2020, it felt like we were in business-as-usual mode, truth be told. Yes, we were dealing with the VUCA (volatile, uncertain, complex and ambiguous) world and understanding it from various business and economics perspectives that we cover at the School of Economics and Business at the University of Ljubljana. Yes, there were indications that something was cooking in the global arena. And then it exploded. We switched to digital overnight, supported each other and showed an immense amount of resilience and flexibility. As a school and academic community of business and economics scholars, students, practitioners, and all other relevant stakeholders.

We have not stood still for a second! While helping our domestic and international students with uninterrupted studies, we also recognized the urgent need to share our research with our business environment. During the first wave of the Corona crisis, we organized 43 webinars with 70 speakers, reaching 30,000 participants. It took us three days to launch the first webinar under the SEB LU Contributes brand. As this is an example of our resilience at its best, it is far from an isolated story. Our research matters.

Our researchers are making an impact. Practically and scholarly. In 2018 - 2020, SEB LU researchers contributed with 6,500 research-based media appearances with an estimated value of EUR 27.6 million (quadrupled all the funds invested in research merely by this indicator). Our scholarly impact, quantity and quality of research is growing as well. Compared to 2010-2014, the number of articles has almost doubled in 2016 - 2020, while the h-index increased more than twice. More importantly, the quality of our research as measured by indicators relevant to economics and business has increased significantly. And even more importantly, our research helps us understand and proactively respond to the challenges of the future. This is why we are introducing a new feature to our research reporting this year - an overview of the research relevant to United Nations Sustainable Development Goals.

We are proud that our efforts have been widely recognized in our institutional environment. The school and our colleagues received the Prometheus Award for Excellence in Science Communication from the Slovenian Science Foundation, the National Zois Recognition for Research in Business Studies (the first ever), two Excellent in Science awards from the Slovenian Research Agency, the Research Award from the University of Ljubljana, nine highly-cited recognitions in the Web of Science, to name just a few more visible ones.

What the future brings, remains to be seen. We are ready to continue contributing to the wicked societal, economic and business challenges. Our guarantee is our dedicated academic community of scholars, professional staff, students, alumni, and practitioners. We also look forward to celebrating our 75th birthday. Happy birthday and go SEB LU!

Prof. dr. Miha Škerlavaj
Vice-Dean for Research and Doctoral Studies

A handwritten signature in blue ink that reads "Miha Škerlavaj". The signature is written in a cursive, flowing style.

SEB LU - THE SCHOOL

The School of Economics and Business, University of Ljubljana (SEB LU) is Slovenia's leading research institution in the fields of economics and business. SEB LU belongs to a select group of business schools in the world that hold all 3 major international accreditation labels in the world of economics and business education: EQUIS, AMBA and AACSB. This triple accreditation recognises SEB LU's commitment to setting the highest standards of quality in education and research. In 2019, the Financial Times has placed SEB LU on the map of the 95 best European business schools for the second time. These awards of excellence provide our staff, students and partners with reassurance that high quality standards are regularly maintained. SEB LU offers an international study environment with cross-cultural learning experiences and partnerships with international institutions from around the world.

VISION

By 2025, we will be the school of choice among business and economics schools in Central and Eastern Europe (CEE) for doing research, learning and creating sustainable development solutions.

MISSION

We broaden horizons and build competences for responsible management to master business and economic challenges.

CORPORATE VALUES

eagerness to learn, creativity, entrepreneurship, integrity, respect and inclusive collaboration

SEB LU - THE RESEARCH CENTRE



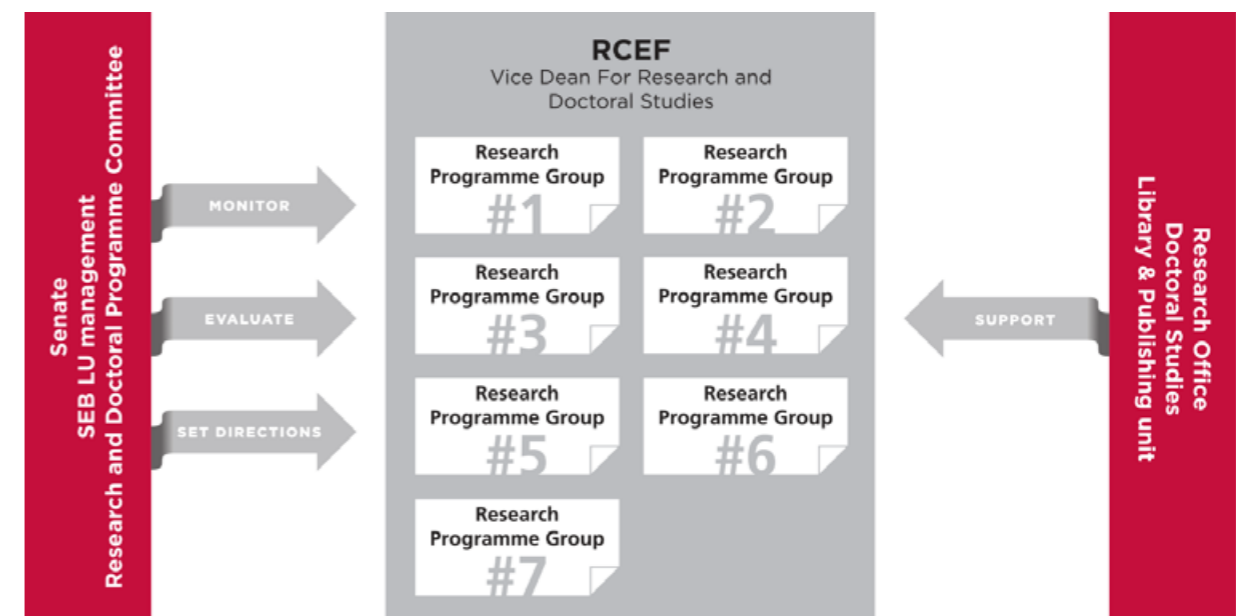
Research is one of SEB LU's core activities that support the mission and vision, and as such is integrated into all strategic activities. SEB LU's strategic direction is to contribute to the progress and sustainable development of the broader community through impactful research and to co-create value for business through applied research. SEB LU researchers must demonstrate their international relevance and impact as these are the main criteria in the habilitation process. Resources are provided and mechanisms are in place to support research excellence. Trends in research performance over the last five years demonstrate that resources are being used effectively as the quality of research continues to improve. SEB LU creates and disseminates knowledge to students by having researchers share their findings as part of programme delivery and by engaging students in research activities. In line with SEB LU's strategy, research is international, multi- and interdisciplinary, with a focus on sustainability issues and in accordance with ethical standards.

Research at SEB LU is organised around the Research Centre of the Faculty of Economics and Business (RCEF), the group that leads research in accordance with SEB LU's strategic plan, and is the direct responsibility of the Vice Dean for Research and Doctoral Studies, who is the head of RCEF. Research activities are monitored and evaluated by the Research and Doctoral Programme Committee, which works with the SEB LU Senate and management to determine research policies and directions in accordance with the SEB LU strategy.

To support the SEB LU mission and vision, RCEF focuses its efforts on empowering individual researchers and research programme groups (see Section 4) to take an active role in implementing the SEB LU strategy. Actions include providing the means for individual researchers to create and disseminate research, creating the conditions for research groups to achieve academic excellence and impact the research community, and actions that enrich the student experience and the SEB LU community at large.

The research agenda of each research programme group is embedded in the conceptual context of the particular area/field the group covers. The Associate Dean for Research and Doctoral Studies coordinates research directions with the seven research group leaders to ensure that research within those directions is aligned with SEB LU. The SEB LU research organisation is shown in Figure 1.

Figure 1.: Research Organisation at SEB LU



Source: Research Office, 2020.

RESEARCH GROUPS



SEB LU has identified institutional focus areas around which the school plans its core ecosystem (educational programmes, research, community engagement) and has already established clear strengths and competencies in these areas. The identified **areas of SEB LU Distinctive Expertise** are competitiveness, innovativeness and sustainability, leadership, knowledge management and work organisation, business process management in organisations and supply chains, and globalisation, trade and international financial markets. These competence areas provide a clear pathway for the development of the school.

SEB LU has structured seven research programme groups around the areas of Distinctive Expertise focusing on: sustainable competitiveness, sustainable development, business leadership, organisational learning and knowledge management, IT-enabled business process management, digitalisation, stakeholder challenges in an uncertain European economic environment and development strategy of Slovenia. These research programme groups operationalise SEB LU research and are linked to the competence areas presented above. They are also consistent with SEB LU's mission, vision, values and impact factors. Sixty percent of SEB LU researchers are members of one of the research programme groups. The research programme groups are officially registered with the SRA. The Research Programme Groups have demonstrated their ability to create high-level academic and applied research that has an important impact on SEB LU's educational programmes, organisation, and environment.

The Research Programme Group **Challenges of inclusive sustainable development in the predominant paradigm of economic and business sciences** aims to: (1) critically assess the challenges of inclusive sustainable development in the prevailing economic and business theories and propose alternative/enhanced theoretical foundations for the behaviour of businesses, consumers (citizens), economies and states in the context of emerging global trends; (2) develop methodological tools and investigate their efficiency, as well as empirically test the proposed models; (3) provide theoretical guidelines and empirical conclusions to support Slovenian businesses, consumers and the country in building an inclusive sustainable growth model, taking into account the nature and specificities of the Slovenian economy. The objectives of the research group are to provide scientific contributions, in addition to contributions for socio-economic development through an improved understanding of sustainable development, inclusive growth and quality of life in an applied interdisciplinary framework.

The Research Programme Group **Sustainable competitiveness of the Slovenian economy in European and global perspectives** aims to create knowledge in three pillars of sustainable competitiveness and inclusive growth, namely business competitiveness and performance, equity and sustainable use and management of resources. Each pillar is considered from several perspectives, building on the interdisciplinary background of the group and encompassing different levels of analysis - macro, industry, firm and individual - and incorporating the modern approach to the structural determinants of competitiveness. The first pillar examines the impact of labour, internationalisation, innovation and entrepreneurial finance on firm performance. The second pillar aims to investigate the impact of firms' internationalisation strategy and innovation activity on the evolution of wage inequality within and across firms; to identify the impact of size-related inequality across firms on their competitiveness, firm performance and survival; and to develop and empirically validate a new model of macroeconomic inequality across euro area countries that builds on the concept of economic exploitation and seeks to explain the impact of economic policies on changes in the structure of economic sectors. The third pillar is concerned with determining the drivers and barriers of energy efficiency at the household and firm level.

Recent changes in the accelerating pace of global change, whether socio-economic, political, or technological, pose new challenges for nonfinancial firms, financial institutions, governments, and individuals. The Research Programme Group **Challenges of investors, firms, financial institutions, and a government in an uncertain European economic environment** aims to bridge the gap between theory and practise around three sets of challenges: first, socio-economic and financial challenges arising from the 'new normal' (changed post-crisis environment combined with persistent sustainability issues); second, institutional and political challenges in the EU and globally (rise of populism, Brexit, etc.); and finally, the research group investigates



the challenges related to technological advances that have an impact on financial institutions, markets and thus on individuals and societies. The research focus includes both microeconomic and macroeconomic levels, as well as national and international perspectives. It also branches out from predominantly finance and accounting related topics to other research fields/disciplines, such as innovation, sustainability, cognitive and behavioural sciences, and data science. This “cross-pollination” allows the group to enrich methodological approaches and address new research questions to address the increasing challenges facing investors, corporations, financial institutions and governments.

The Impact of Corporate Governance, Organisational Learning and Knowledge Management on Modern Organisations Research Programme Group addresses the question of how to make organisations sustainable. The group aims to advance the body of knowledge on the following topics: 1) the influence of dynamic capabilities on firms’ competitive advantage in a highly turbulent environment; 2) the hidden influence on creativity levels, dropping of creative ideas, and implementation of ideas; 3) non-technological innovations and their relationship to the development of novel organisational structures; 4) conscious and unconscious (un)ethical behaviour in organisations; 5) prosocial and proactive behaviour of employees; 6) the role of multiple intelligences in the context of knowledge management; 7) work-family dynamics; 8) quality management and management control systems; 11) authentic leadership, learning organisation, neuroleadership; and 12) characteristics of the learning organisation, organisational learning, and situational environmental factors. The research spans both knowledge management and innovation management, and provides a holistic contribution to the phenomenon.



The goal of the Future Internet Technologies: Concepts, Architectures, Services, and Socio-Economic Issues The aim of the SEB LU part of the research group Future internet technologies: concepts, architectures, services, and socio-economic issues is to advance the current knowledge of the concepts, models, applications, and services for the sustainable information systems development, adoption and use. The group focuses on digital transformation, business process and data management, information systems management & strategy, optimization, supply chain management & logistics and technology adoption in organisations and supply chains. This is a multi-disciplinary group that includes researchers from computer science, information systems and supply chain management domains.

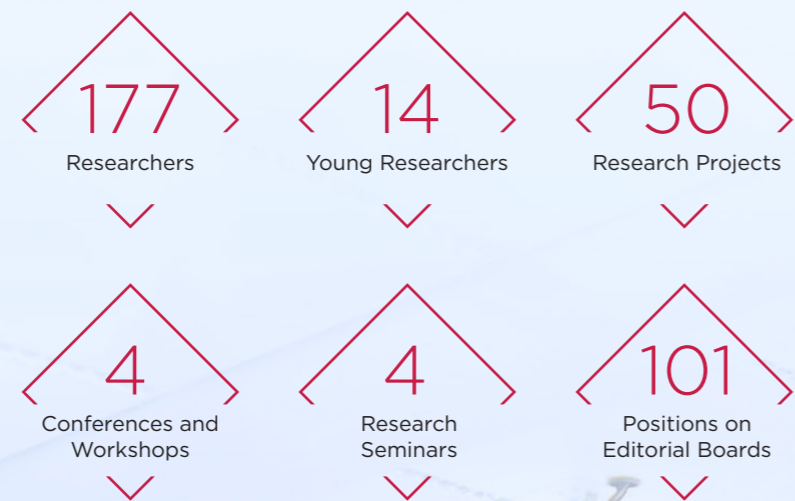


The Research Programme Group **New development strategy of Slovenia as a member of the EU** aims to create new fundamental knowledge and to perform internationally recognised cutting-edge research in the field of economics. The group focuses on areas that are important for Slovenia’s societal, economic, social and sustainable development. The application of basic knowledge and advanced scientific methods in application and development projects is of extraordinary importance for the education and training of young researchers, in addition to the pedagogical process at universities. Following the goals of the new Development Strategy of Slovenia 2014-2020, the Research Programme Group advances current knowledge through: 1) the analysis of economic, social and environmental factors of development, as well as through intergenerational and spatial dimensions of sustainable development, and through 2) the study, development and application of appropriate methods and tools. Completed scientific research demonstrates the originality of the methods used and the broad international impact, together with the real impact of the studies prepared on the activities of individual ministries. The research work is also reflected in the intensive transfer of the acquired theoretical and practical knowledge into the educational process within several Slovenian universities.

The Research Programme Group **Digitalisation as Driving Force for the sustainability of individuals, organizations and society** aims to create impact through improved understanding of how different stakeholders can develop appropriate digital capabilities to fully exploit the opportunities of digitalisation in terms of value creation, inclusive society and sustainable development. Within this objective, the research is organized around four key themes: 1) digitisation for a flexible, sustainable sharing economy and society; 2) digitisation, workplaces and the future of work; 3) technologies and management practices to support digitisation in organizations; and 4) digitisation, ethics, dysfunctional behavior and environmentally friendly behavior. This is a multidisciplinary research group that gathers researchers from management and computer science to effectively advance the knowledge of both scientific fields.

RESEARCH HIGHLIGHTS 2020

THE RESEARCH CENTRE



RESEARCH OUTPUT



PEOPLE (STRUCTURE OF RESEARCHERS)

In 2020, 177 researchers conducted their research at SEB LU.



14 Young researchers

163 Researchers

177 TOTAL

The full list of Research Centre members is in the Appendix.

DOCTORAL PROGRAM

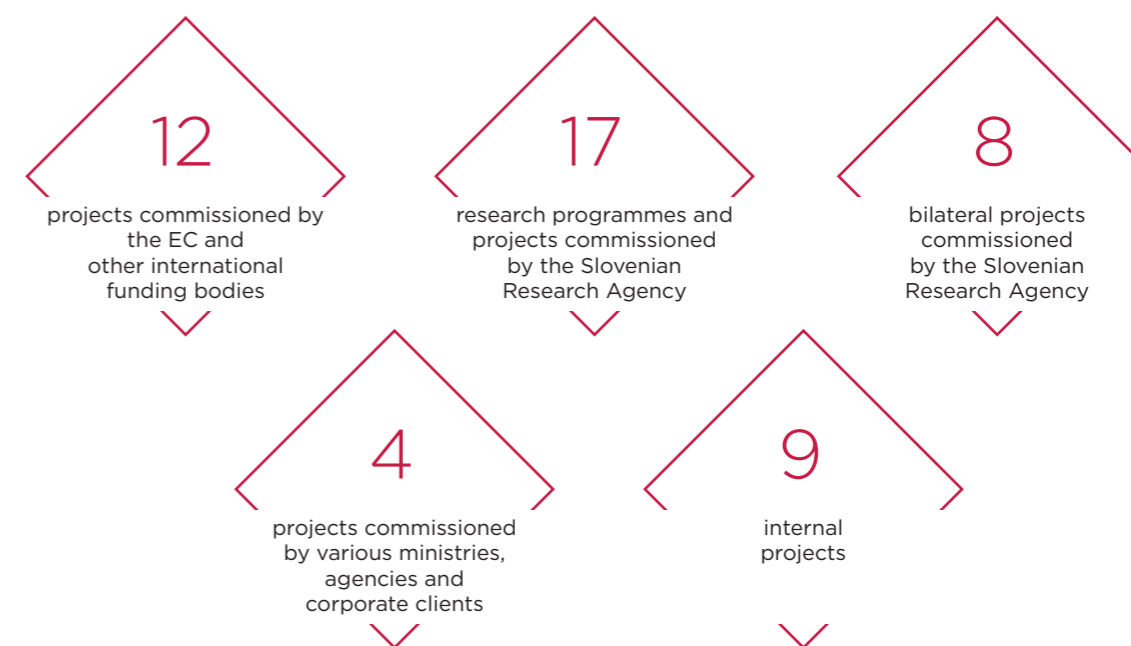
- 1 Doctoral Program in Economics and Business
-
- 2 Inter-disciplinary programs:
Interdisciplinary Doctoral Programme in Statistics and
Interdisciplinary Doctoral Programme in Environmental Protection
-
- 80 PhD Students enrolled in the Doctoral Program in Economics and Business



PROJECTS HIGHLIGHTS



In 2020, a total of 50 projects were managed by the Research centre:



A brief description of the selected projects is presented below.

Project: SI4CARE - Social Innovation for integrated health CARE of ageing population in ADRIAN Region ECAT - Disruptive Technologies Supporting Labour Market Decision Making

Project coordinator: University of Ljubljana (SEB LU and Faculty of Civil and Geodetic Engineering)

Principal Investigator: Vlado Dimovski (SEB LU)

Funding Entity: European Union, European Regional Development Fund

Project amount: 2,017,373.86 €

Amount for SEB LU: 460.573,85 €

Project Timeframe: 1. 12. 2020 - 31. 5. 2023



The main objective of the project is to contribute to the creation of a transnational effective ecosystem for the Social Innovation application in integrated healthcare services for the ageing population in the ADRIAN countries, through a joint collaboration network and a unique strategy translated into regional and national action plans, implemented and monitored through pilot projects, once innovative approaches have been tested and supported by an ICT Decision Support System. This objective contributes to the Social Innovation theme, as SI4CARE aims to tackle the needs of the ADRIAN ageing population for long-term healthcare, especially in remote areas, by creating a collaborative environment where solutions are co-designed and involve a large transnational community representing all relevant stakeholders, such as public and private healthcare providers, users and associations, academics and social entrepreneurs, voluntary associations, NGOs, public administration and PAs.

Project specific objectives:

1. Set up a transnational collaborative community for innovative integrated healthcare in the ADRIAN regions.
2. Achieve a unique medium/long-term vision on Social Innovation for the healthcare system for the elderly in the ADRIAN regions.

3. Combine the best available innovative e-tools and solutions for elderly care in an integrated and intelligent way for effective delivery of healthcare services to the elderly people in the ADRION regions.

Main results of the project:

1. Mobilisation and improved collaboration of stakeholders involved in the elderly care.
2. Enhanced competencies of relevant stakeholders involved in the elderly healthcare to deliver services in an effective, integrated and innovative way, as well as PAs in their process of policy and regulation development.
3. Improved coordination of social innovation strategies and implementation models in the field of elderly care in the participating regions.



Project: HECAT - Disruptive Technologies Supporting Labour Market Decision Making

Principal Investigator at SEB LU: Marko Pahor

Funding Entity: European Commission

Amount for SEB LU: 115.022,50 €

Project Timeframe: 1. 2. 2020 - 31. 1. 2023

HECAT is a consortium of European Institutes dedicated to understanding big data and the use of algorithms within Public Employment Services (PES). The primary aim of this Horizon 2020 funded research is to work towards the development and piloting of an ethical algorithm and platform that can be used by PES and the unemployed people to help make decisions and allocate resources in meaningful way.

HECAT is a research consortium carefully brought together to tackle the mammoth task of developing an ethical algorithm-based platform to help Public Employment Services (PES) and unemployed people make informed, transparent and integrated decisions.

The research aims to use sociological and anthropological insights into unemployment and the labour market to guide the technical developers of the back-end algorithms and front-end user interface, with the objective of creating an ethical and equal platform. The consortium partners are from AHSS and STEM, academics, NGOs and PES.



Project: GETM3 - Global Entrepreneurial Talent Management 3

Principal Investigator at SEB LU: Katarina Katja Mihelič

Funding Entity: European Commission

Amount for SEB LU: 130.410 €

Project Timeframe: 1.1.2017 - 31.12.2020

Global Entrepreneurial Talent Management 3 (GETM3) is an international, interdisciplinary research project funded by the EU's Horizon 2020 research and innovation programme. It aims to increase the employability of global talent, develop talent management practices in companies, and promote entrepreneurship to support economic development. As CEOs and HR professionals report a skills shortage, they are finding it increasingly difficult to attract, manage and retain young talent. For this reason, the GETM3 project brings young talents to the forefront: they are well-educated, have a global mind-set and are eager to work for a company that seeks to have a broader impact on society. Talent, a key driver of future development at the heart of the project, will be developed and nurtured through the co-operation of 3 stakeholders: employers (including MNC & SME's), universities and students/graduates.

This three-pillar perspective enables a comprehensive analysis of the current situation in the business and education world, conducted by 15-partner consortium; comprising of a transnational, interdisciplinary, intergenerational, gender-balanced and cross-sectoral research team. A truly global project, GETM3 connects academic and business partners from Ireland, Poland, Slovenia, United Kingdom and South Korea, who meet quarterly to network and disseminate their research findings. In September 2017, a highly successful sandpit was organized at the School of Economics and Business,

University of Ljubljana (SEB LU), focusing on state-of-the-art methodological approaches that facilitate the conduct of impactful research.

The School of Economics and Business, University of Ljubljana, and its researchers are responsible for one of the three pillars of the project. During this period, we successfully completed two main work packages related to talent management and psychological contracts. Work package 4, dealing with the employers' perspective on talent, intends to better align the expectations of employers and young employees and to develop a holistic talent management framework. Researchers from various partner institutions have committed to provide an in-depth insight into psychological contracts, i.e., the expectations employers have about the actions and behaviours of their young talents, and vice versa, the expectations young employees have about the job content, working conditions, and opportunities employers should provide. Unpacking perceptions about commitments is important because it improves person-organization fit and reduces mismatches, leading to employees' productivity, engagement and, thriving on the one hand, and improved organizational performance on the other.

Project: GROWINPRO - Growth Welfare Innovation Productivity

Principal Investigator at SEB LU: Jože Damijan

Funding Entity: European Commission, H2020-SC6-TRANSFORMATIONS-2018

Amount for SEB LU: 140.000,00 €

Project timeframe: 1.1.2019 - 31.12.2021

GROWINPRO aims to provide a detailed analysis of the causes of the anaemic growth performance observed in Europe during the last decades and, in particular, after the Great Recession. On the grounds of such analysis, GROWINPRO will deliver a set of policy solutions aimed at restoring sustainable and inclusive economic growth, with a particular focus on both the demand and the supply side.

GROWINPRO brings together researchers from eleven international academic institutions and three national statistical offices. Through joint interaction between academic institutions and national statistical offices, GROWINPRO focuses on new data sources, methods and statistical indicators to address the challenges posed by the call.

The project has two main objectives. From a diagnostic perspective, it proposes to link three levels of analysis - macro, meso and micro - to empirically investigate the sources of the productivity slowdown and the relationships between productivity, demand and growth. From a normative perspective, it aims to provide a novel, integrated set of policies to put Europe on a balanced, innovation-driven and inclusive development path, while also addressing major societal challenges, such as climate change, population ageing, and robotization.

Project: GLOBALINTO - Capturing the value of intangible assets in micro data to promote the EU's growth and competitiveness

Principal Investigator at SEB LU: Tjaša Redek

Funding Entity: European Commission, H2020-SC6-TRANSFORMATIONS-2018

Amount for SEB LU: 364.500,00 €

Project timeframe: 1.2.2019 - 31.1.2022

Nearly ten years after the start of the financial crisis, productivity growth rates are still very low in European Union (EU) and OECD countries (Van Ark and Jäger 2017). And while the low growth may well still be related to the financial crisis, it also appears to be part of a longer-term slowdown in productivity growth since the 1970s. This has led to much attention being paid to possible reasons for the slowdown and potential policy responses also in relation to intangible capital.

Although a number of possible explanations have been put forward, convincing evidence on the main reasons for the slowdown is lacking. Both research and policy are hampered by a lack of data and evidence. The GLOBALINTO project seeks to fill this gap.



The focus of GLOBALINTO, in both measurement and analysis, is on the role of intangibles; how they can be measured in a sustainable manner, their accumulation and diffusion, and their use in generating innovation and productivity growth. These processes are central to understanding the underlying drivers of the role of globalization, demographic change, the public sector and SME growth.

GLOBALINTO will:

- Review existing literature, methodologies and data on the measurement of intangible assets.
- Conduct conceptual work on intangible assets and their relationship to innovation and productivity, mapping key factors such as globalization and the role of value chains, the impact of the demand side on innovation and productivity, IT and digitization, and the role of public sector intangibles.
- Develop new measures of intangibles and advanced methods to link data and construct them.
- Use this new data to analyze the various potential explanations for the productivity puzzle, both at the micro and macro levels.
- Conduct analyses of existing economic policies and their role in promoting investment in intangibles, innovation and productivity growth.

Project: When is blockholding growth enhanced?

Principal Investigator: Janez Prašnikar
Funding Entity: Slovenian Research Agency
Amount: 159.977 €
Project Timeframe: 1.5.2017 - 30.4.2020

The term macroprudential regulation denotes a regulatory approach that aims to mitigate the risk of the financial system as a whole. The modern crisis (2008) reinforced the consensus among policymakers and economic researchers that there is a need to change the regulatory framework towards a macroprudential perspective. Thus, the key question became what macroprudential policy tools should be used to ensure that the recovery, after the largest financial crisis since the Great Depression, is robust. The research project addresses three areas that are central to achieving macroeconomic stability (not only in Slovenia) and whose treatment falls within the framework of macroprudential regulation (Stiglitz, Greenwald, 2014). These areas are: blockholding as the dominant form of ownership of companies; the reduction of bank loans to new corporate investment; state subsidies.

The area of concentrated ownership and its role in the modern economy has come to the fore in the field of economics in the last two decades (Holderness, 2003). Nevertheless, the current literature on blockholding and multiple controls and their impact on firm efficiency does not follow the growing interest and need for a deeper understanding of the phenomenon. Therefore, the following three main objectives are pursued in this project area: 1) the development of a theoretical model of an effective minimum control coalition; 2) the analysis of differences in total factor productivity (TFP) between firms with different types of minimum control coalitions and also firms with dispersed ownership in Slovenia in the period 2006-2016; 3) the analysis of debt (de)accumulation between firms with different types of minimum control coalitions in Slovenia in the period 2006-2016. The area of reduced bank lending to corporate investments (especially for SMEs) has an important impact on the macroeconomic environment, as investments represent the most volatile component of gross domestic product. The research project will make an important contribution to the existing literature by looking at what drives the supply of bank credit to households and firms in emerging economies before and during the turmoil of the latest financial crisis, as well as its aftermath. This will be done by pursuing the following objectives: 1) the development of a theoretical model in the tradition of Mundell and Fleming (Mundell, 1963; Fleming, 1962, Dornbusch, 1976) and that includes banks as intermediaries; 2) the identification of the role of capital inflows during the period of economic boom and massive capital reversal; 3) the identification of the main drivers of excessive bank credit; 4) the identification of the effects of supply-side factors, demand-side factors and country-specific effects on firm and household credit growth. The discussion on

state subsidies has re-emerged in the last decade, mainly triggered by the increasing awareness of climate change (Aghion et al., 2011). Moreover, the crisis has showed that markets are not necessarily efficient, and indeed there was a broad consensus that without strong government intervention – which includes lifelines to certain firms and certain industries – many developed economies in Europe and the US would have collapsed (Stiglitz and Greenwald, 2014). The research project will make significant contributions in the fields of subsidies, comparison of different subsidy policies, and the impact of subsidies on the adjustment process during the business cycle.

All three research areas presented are intertwined and represent important pieces in the puzzle of macroeconomic stability.

Project: Business analytics and business models in supply chains

Principal Investigator: Peter Trkman
Funding Entity: Slovenian Research Agency
Amount: 300.019 €
Project Timeframe: 1.7.2018 – 30.6.2021

The ongoing 4th industrial revolution and digital transformation require continuous innovation of business models (BM). Moreover, the roles of organizations are beginning to overlap and need to be redefined. The adoption and use of business analytics (BA) is of key importance for economically-sound BM innovation. The adoption of BA affects the decision making process at strategic, tactical and operational levels, requires top management endorsement, and entails the development of data-processing techniques.

Researchers and practitioners try to answer to ‘what BM is and what it is not’, how to modify the existing BMs and develop new ‘winning’ BMs, which ramifications for BMs are entailed by simultaneous competition and cooperation, and how to design the methods for big-data analytics that improve organizational decision making and performance. BA can change the way organizations form supply chains (SCs); however, its implementation – in addition to the development of BM – is very difficult.

Further development of these interdisciplinary research areas requires combining leading-edge knowledge repositories from BMs, BA, supply chain management (SCM), and non-technological innovations. Our basic research project thus represents the important and much needed ‘breakthrough’ in these interwoven research areas. The project will start with a thorough analysis of BM research in the first work package (WP1). We are going to use bibliometric methods that will reveal the past research areas and provide rigorous findings to considerably improve the future prospects of the BM research.

In the second work package (WP2), we will develop a conceptual model with possible scenarios between collaborators-competitors (coopetitors). We will use the model and the game-theoretic considerations to demonstrate interactions between coopetitors and their impact on the BM development. The work package 3 (WP3) will tackle the role of BA in the ecosystems of coopetition-based BMs. In addition, WP3 will enhance understanding of BA adoption in organizations and explain the mechanisms by which BA creates value for the business. We consider innovativeness, uncertainty in the organizational environment, and the quality of information to comprehensively analyze how BA capabilities improve organizational performance.

Organizations can suffer a setback if they do not focus on analytically-oriented individuals whose analytical skills are a prerequisite to elicit value from BA solutions. Therefore, the work package 4 (WP4) focuses on the traits of these individuals and how these traits affect the BA adoption and decision making. In addition, we will manipulate with the novel BA solutions to test the response of these individuals and, consequently, different decisions. The last work package (WP5) will be devoted to the development of new BA methods. Specifically, we will focus on predictive analytics methods and techniques to improve BM.

The project will start with bibliometric methods, in particular co-citation analysis for the past development of the BM topic; co-word analysis to identify the interconnections

within the topics of interest and to generate semantic maps of publications within the BM research; and bibliographic linkage to predict the future research agenda. Next, we use experiments to identify and analyze the differences between experimental groups and to confirm/reject the use of various BA methods in different circumstances. We then model analytical orientation on a conceptual level and develop a model to identify key constructs and their connections. We also develop an analytical framework that considers overlapping and redefined roles of organizations in SC networks with the presence of cooperation between competitors. Our revolutionary framework will present the coopetition-based scenarios through several case studies. We will use advanced statistics (e.g., SEM models) to analyze the role of BA and its adoption.

The project overall contributes to an improved understanding of the adoption, implementation, and business value of BA in view of agile BM development in dynamic SC networks, where the roles of organizations have been redefined and have started to overlap.

Project: How to speed up growth of Slovenian enterprises: Structural dynamisation, granularity, internationalization and innovation

Principal Investigator: Jože Damijan
Funding Entity: Slovenian Research Agency
Amount: 119.992 €
Project Timeframe: 1.7.2018 – 30.6.2021

Comparison of the Slovenian corporate sector with corporate sectors of other EU countries exhibits a structural deficit in small and medium-sized enterprises. Therefore, in order to accelerate the overall growth of the Slovenian economy, it is necessary to increase the growth dynamics of Slovenian enterprises. The objective of the proposed project is to identify those factors of firm growth within the enterprises themselves and in their macroeconomic and institutional environment that hinder faster growth of Slovenian enterprises compared to enterprises from other EU countries, and factors that have the most positive impact on their growth.

The above objective places the research in the context of the theory of firm growth. The purpose of our research can be best summarized by a combination of optimal size and resource-based theories of firm's growth. On the one hand, the resource-based theory states that firm growth depends on inherent factors within the firm, such as technology, skilled personnel, efficient procedures, brand names, trade contacts, etc., and their efficient combination (organizational capabilities). On the other hand, the optimal firm size model basically states that optimal size depends on a number of exogenous variables. Overview of existing empirical studies reveals the following determinants of firm's growth: firm's size, age, export propensity and broader internationalization activities, firm ownership, granularity (i.e. firm heterogeneity), R&D and innovation activity, human capital, and financial constraints. Firm-level determinants act within industry-specific factors, and relevant macroeconomic and institutional factors.

In the first stage, a model of firm growth in Slovenia and other EU countries is estimated with firm-level / industry-specific / macroeconomic and institutional factors of growth. In the second stage, the following specific aspects of Slovenian firms' growth are analyzed in more detail:

- Structural dynamisation of the Slovenian corporate sector through resource reallocation among firms and creative destruction.
- Impact of granularity on firms' growth, i.e. first and higher-order effects of demand shocks at large hub firms on economic activity across the economy.
- Intangible capital accumulation and the dynamics of SME growth.
- Relevance of trade diversification (exports) to the growth of Slovenian firms.
- Changing patterns of internationalisation and complex internationalisation strategies.
- Impact of access to finance and debt of firms on their growth.
- Impacts of human capital and its diversity on firm's growth.
- Specific importance of various aspects of business environment for SMEs.

Primary data source will be individual firm-level data: for EU, Amadeus and World Bank Enterprise Surveys; for Slovenia, data in the safe room of Statistical Office of Slovenia, where we combine data from AJPEs (financial statements of firms), Bank of Slovenia (related to foreign-owned firms in Slovenia in Slovenian firms investing abroad), Statistical Office (labour force data, innovation survey) and state aid data.

The novelty of the research is reflected in the following aspects:

- The first research of this kind for Slovenia in a comparative EU setting that analyzes micro-firm level factors (based on individual firm-level data) and macroeconomic and institutional factors of firm growth in a truly complex way.
- Analysing the following specific aspects of firm growth, which have not yet been systematically analysed in the Slovenian case: (i) granularity, (ii) structural dynamisation of corporate sector, (iii) accumulation of intangible capital as a source of SME growth, (iv) changing patterns of internationalisation and complex internationalisation strategies, (v) diversification of trade (exports), (vi) diversity of human capital, (vii) firms' own financial distress and debt spillovers, (viii) business environment of particular importance for SMEs.



Project: Understanding the weak relationship between firm size and productivity

Principal Investigator: Sašo Polanec
Funding Entity: Slovenian Research Agency
Amount: 282.381 €
Project Timeframe: 2018-2021

The standard economic framework predicts a positive relationship between size and productivity. If firms can pay fixed costs to export or enter a new product market, this relationship will be even stronger. Most empirical studies, however, find only a small productivity premium for larger firms. This could be due to a misallocation of resources, an active area of research, but other explanations are also possible. Either the theory omits an important element, or productivity is imperfectly measured.

In our project, we first study the size-productivity relationship theoretically. Several widely used trade models exhibit discrete jumps in output when firms enter new markets. We derive analytic expressions for the "expected" elasticity of size with respect to productivity. We show that this elasticity can be lowered when a 2nd source of heterogeneity is added, namely firm-specific fixed costs of market entry or demand variation (which can be interpreted as quality).

Our model can account for a wide range of size-productivity relationships, which we estimate using data for three countries. The dataset for each country has specific advantages. The Chinese firm sample is particularly large and allows us to estimate by industry. For Belgium, we observe the sourcing of intermediates and R&D services, which we use to control for quality differences. For Slovenia, we observe the occupational structure of each firm's workforce, which we use to measure fixed costs and improve productivity measures.

Project: “Firm- level hubs and impact of granularity on the propagation of shocks and aggregate output fluctuations in a small open economy”

Principal Investigator: Jože Damijan
Funding Entity: Slovenian Research Agency
Amount: 234.273 €
Project Timeframe: 2018-2021

The project focuses on assessing the importance of firm-level idiosyncratic shocks on the aggregate output of the economy. This research program aims to provide a new and different approach to the analysis of macroeconomic fluctuations by recognizing that heterogeneous behavior of the underlying microeconomic parts provides important new insights into the channels of macroeconomic fluctuations. These approaches are sometimes also referred to as the “granular origins” of aggregate fluctuations.

Our primary focus on a firm-level analysis of two small open economies (Belgium and Slovenia), which is complemented by using input-output data at a very detailed industry level. The reason for this is twofold. Firstly, most recent theories stress the importance of firm-level shocks, making the use of firm-level data desirable. Secondly, as shown by di Giovanni and Levchenko (2012), small open economies are particularly exposed to aggregate volatility on account of micro-level shocks.

Project: “Navigating Brand Preference through Consumers Stereotypes”

Principal Investigator: Vesna Žabkar
Funding Entity: Slovenian Research Agency
Amount: 234.273 €
Project Timeframe: 2018-2021

Stereotypes capture the cognitive dimension of social perception and stereotyping involves an act of categorization in which people assign characteristics to an individual belonging to a stereotyped group. A substantial body of social psychological research shows that stereotyping impacts perception, evaluation and behavior. In the marketing context, three distinct kinds of stereotypes are expected to influence consumer behavior. These are socially shared and highly simplified beliefs about the characteristics of (a) typical users of a certain brand (brand user stereotype), (b) different countries and their people (country-of-origin stereotype), and (c) different brands (brand stereotype). There are previous studies showing the impact of stereotypes on consumer perception and behavior. However, a fundamental shortcoming of extant consumer research on stereotyping is that the role of different kinds of stereotypes in brand evaluation and selections is always studied in isolation from each other, which is problematic. With this in mind, and drawing on the rich literature on stereotyping, social psychology and consumer research, this project pursues four main research objectives, which will be realized in five studies:

- To answer the question of how brand user stereotype, the country-of-origin stereotype, and brand stereotype are related and influence perceived risk and perceived value as key intervening variables that (partially or fully) mediate the effects of the different stereotypes on consumer decision-making and behavior.
- To investigate a range of brand- and consumer-level moderators imposing potential boundary conditions for the aforementioned effects.
- To assess the cross-national stability of the interplay and content of the different consumer stereotypes and their impact on consumer behavior.
- To generate in-depth insights into whether the different stereotypes influence consumer perception, information processing, and behavior in concert or whether one stereotype dominates while the others are less salient or even inhibited.

Project: Development of Social infrastructure and services for Community based long-term care

Principal Investigator: David Bogataj, INRISK (principal investigator at SEB LU Vlado Dimovski)
Funding Entity: Slovenian Research Agency
Amount: 39.912 €
Project Timeframe: 1.8.2018 – 30.6.2021

Across Europe, communities need to respond to the unprecedented growth in the elderly population. As Prof. Dobbs has pointed out (Black and Dobbs, 2013, 2015), the consequences of societal aging will impact all aspects of life and the broader infrastructure. Therefore, we can agree that, as in the USA, recent evidence in Europe suggests that communities are woefully unprepared for this imperative. The waiting lines for assisted living in institutional care are too long and community care is poorly developed. There is no adequate infrastructure. The question arises as to what kind of housing and environment seniors in Slovenia prefer after substantial decline of their functional capacities. What kind of social infrastructure should be built? How can their current housing be taken over and what should be offered to them when they are no longer able to live in the home where they have lived in for years?

The proposed research will answer these questions and examine to what extent innovative approaches to development of social infrastructure that mitigates the risk of long-term care dependency should be built in the regions at the NUTS 5 and NUTS 3 level according to the affordable financial sources and optimization procedures which will be developed on multiple decrements model as described by Bogataj et al. [COBIS ID - 38063621], here further developed and implemented at the regional level of Slovenian NUTS3 regions, considering also the optimal allocation of facilities in the hierarchical structure of spatial units (Drobne and Bogataj, COBISS.SI-ID 8025185). Investments in assisted-living facilities in urban areas and suburbs will be examined as well as prototypes of retirement villages.

Based on the demographic analysis of spatial units at the NUTS5 and NUTS3 level and the actuarial study of required capacities and costs for investments and operating costs, the Slovenian regions are categorized in terms of existing infrastructure, demographic forecasts and actuarial evaluation of required investments and costs for services depending on the investment structure. The investments will be compared with the reduced costs of exposure to risk of dependency and higher costs of care in nursing homes. We shall base our further qualitative analysis on our previous conclusions regarding needs, standards and required improvements of standards as described in papers of Kavšek and Bogataj [COBISS.SI-ID 2048403202; 2048309762; 38818821; 38064901; 2048437506; 292502784], also on identifications and directives which follows from the results of research projects of Mali et al. [COBISS.SI-ID 4793189; 4718693; 4135781], exposed legal frameworks and requirements for changes based also on the study of Mali et al. [4937829] and on importance to protect the housing rights of seniors in the process of deinstitutionalization, as studied by Drobež and Bogataj [COBISS.SI-ID 38819333]. Triangulation with the findings from an exploratory inquiry, published by Black and Dobbs (2015), our experiences in Spain and some other papers listed in WoS, will also be part of our study.

A decision support system related to infrastructure investment will be developed based on the further development of the multiple decrements and multi-state transition model extended to optimal housing, built environment and services, where qualitative and quantitative data from the Slovenian regions and local authorities will be evaluated on the bases of actuarial present value. The results will show how the built environment can offer support for longer autonomous and independent living of frail older people in the community. The optimization procedures will argue that national policy makers should move from the present primarily reactive to an increasingly proactive policy approach seeking both to prevent the loss of autonomy and thus reduce the need for care, and to boost efficient, cost-effective care provision.

Project: Looking into the dark side of the triadic relationship in the sharing economy

Principal Investigator: Barbara Culiberg
Funding Entity: Slovenian Research Agency
Amount: 299.994 €
Project Timeframe: 2019-2022

Recently, there has been an upsurge in a new type of economy, called the sharing economy, which enables consumers to utilize goods or services through temporary access non-ownership models by relying on the Internet. As a result, the understanding of the market in the sharing economy has changed, as it is no longer divided only in terms of suppliers and consumers, but the relationships become much more complex, and a triadic platform-based relationship is created by three groups of participants: service enablers (e.g., Uber, Airbnb), service providers (e.g., drivers, hosts), and customers (e.g., riders, guests). Consequently, tensions among different players are growing and ethical misconduct is becoming more prevalent. Because of the complex relationships that develop in the sharing economy (i.e., enabler – provider, enabler – consumer, consumer – provider), existing models of ethical evaluations need to be reconsidered to understand how individuals develop their ethical position through these interactions.

The focus of this project is on the users (i.e. consumers and providers) of the sharing economy. The objective is to understand the ethical evaluations of others' transgressions, antecedents and outcomes of these evaluations in the context of the sharing economy. Therefore, the main research question is: How does the process of ethical evaluations of other participants' wrongdoings in the sharing economy unfold? Considering the popularity of the sharing economy, it seems imperative to develop new models that would help explain: how do users evaluate the disruptive behaviours of others (providers/enablers)? What are the relational outcomes of users' ethical evaluations of others and how do they interact? How does ethics at different levels influence users' ethical evaluations of others? Which factors from the ethical and relational theories moderate the relationships among the ethical antecedents, evaluations, and outcomes?

Project: Pro-environmental behavior in tourism

Principal Investigator: Ljubica Knežević Cvelbar
Funding Entity: Slovenian Research Agency
Amount: 112.376 €
Project Timeframe: 2019-2022

Environmental sustainability is a key challenge of humanity. Tourism is one of the activities contributing significantly to the problem of environmental damage. The United Nations Environment Program states that "uncontrolled conventional tourism poses potential threats to many natural areas around the world. It can put enormous pressure on an area and lead to impacts such as soil erosion, increased pollution, discharges into the sea, loss of natural habitats, increased pressure on endangered species and increased vulnerability to forest fires". Cruise ships in the Caribbean, for example, generate more than 70,000 tons of waste annually; and the development of tourism infrastructure in Yosemite National Park in the U.S. has caused habitat loss and significant pollution, including "smog so thick that Yosemite Valley could not be seen from airplanes". Closer to home, cleaning a single room in a Slovenian four-star hotel uses 35 litres of water, 1.5 kWh of electricity and 100 ml of chemicals.

It is critical – both at a global and local destination level – to find effective ways to reduce the environmental harm caused by tourism activities. The proposed research project will achieve this by changing tourist behavior. With more than six billion tourists going on holiday every single year, even the smallest changes in tourist behavior could collectively make a significant change for the better. Such small behavioral changes include renting an electric car instead of a petrol operated car, turning off the air-conditioning when leaving the room, and not wasting food at the breakfast buffet.

Findings resulting from this project have major theoretical implications: they either confirm or challenge current theory. If pro-environmental appeals prove to be effective in tourism, the practical outcomes of the project are equally significant: the direct availability of pro-environmental measures for the tourism industry to adopt. Adoption of these measures will immediately reduce the environmental harm caused by the tourism industry in Slovenia and beyond. If, however, pro-environmental appeals prove to be ineffective in pleasure-seeking contexts such as tourism, new theories need to be developed and empirically tested for this context.



Project: Analysis of territorial and social impacts of the urban tourism and its territorial governance: the cases of Ljubljana, Graz and Maribor

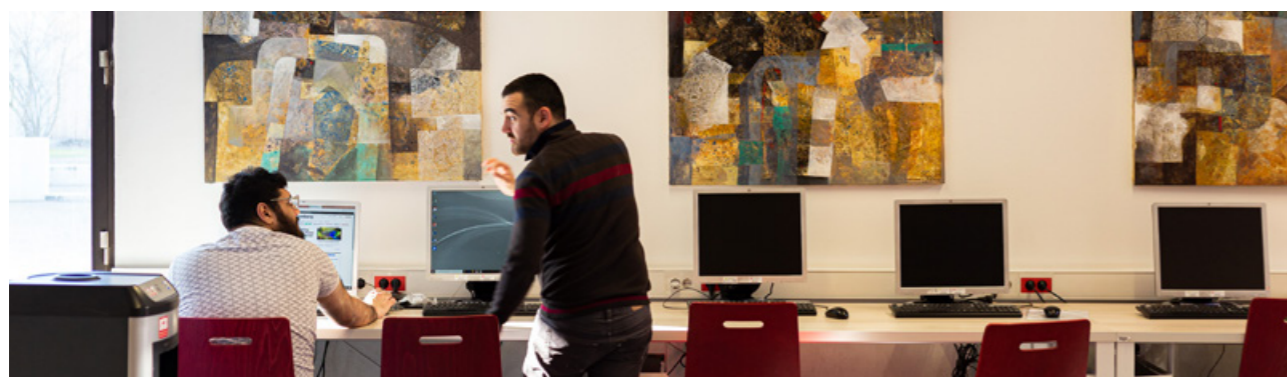
Principal Investigator: Naja Marot UL BF (principal investigator at SEB LU Irena Ograjenšek)
Funding Entity: Slovenian Research Agency
Amount: 42.962 €
Project Timeframe: 2019-2022

The current period could be identified as an urban development period. Cities do not act only as economic and immigration nodes, but at the same time attract a larger number of tourists, causing significant spatial, social, environmental and economic impacts in the city. Under this pressure, certain parts of cities have been 'touristified' and term 'overtourism' has been coined to describe this phenomenon. On average, the number of visitors in larger cities increases at a rate of 5% per year, and at a rate of 10 to 15% in the EU cities with the highest demand. In Ljubljana, the increase in 2016/2017 was as high as 16%. On one side, cities strive for sustainable management of resources, while on the other side, they intensively promote themselves as tourist destinations. Reluctance to address this phenomenon is present in existing tourism and spatial development strategies, where urban tourism has only recently gained attention. The lack of cross-sectoral cooperation between urban planning and the tourism sector can be addressed by using integrative planning. Therefore, the aim of the first project is to identify and evaluate the spatial and social impacts of tourism, and the second is to find the tourism and spatial planning management model to address and mitigate these impacts.

The project applies a mixed-methods approach using public participation techniques (surveys, workshops, and interviews), cartographic analysis and mapping. The research questions are addressed in four thematic work packages (WP). In WP1, urban tourism is characterised based on existing definitions and spatial models (literature review). For the selected cities (Ljubljana and Maribor), a statistical analysis of tourist visits is done, together with the review of relevant studies dealing with the topic. The field survey with tourists focuses on their opinion about the infrastructure and on mapping their routes around the destination. In the WP2, the spatial dimension of urban tourism is inspected through the Territorial Impact Assessment workshop, mapping of potential tourist routes in the city (as suggested through different channels, e.g.

guides), and the survey among inhabitants. WP3 is dedicated to the policy and institutional analysis (complemented by interviews) and field trips to benchmarking cities. The good practice analysis of the management practices serves as input for the WP4, in which the sustainable tourism and spatial planning management model is developed and validated through the workshops. In addition to the interim and final report, dissemination includes Open Access publications in scientific journals and presentations at conferences, the joint seminar for the MSc students and the scientific monograph.

The research requires an interdisciplinary approach; hence an interdisciplinary team of geographers, economists, sociologists, landscape architects and architects has been formed. The importance of the expected results for scientific progress lies in addressing a new interdisciplinary research topic, namely understanding the relationship between urban tourism and urban planning, and offering integrative solutions for better urban management. The transnational comparison of urban tourism in the medium-sized Central EU cities adds international flare to the research. In terms of benefits to society, the research will provide answers for a more efficient management of urban tourism in medium-sized cities, achieved through the solutions offered by spatial planning. The circle of potential beneficiaries includes the urban planners, policy makers, local tourist offices and residents.



Project: Legal and economic analysis of regulatory changes as a consequence of ageing of population

Principal Investigator: Gregor Dugar UL PF (principal investigator at SEB LU Igor Lončarski)

Funding Entity: Slovenian Research Agency

Amount: 29.973 €

Project Timeframe: 2019-2022

Like other European countries, Slovenia is facing major changes in the age structure of its population. The proportion of elderly population is increasing every year and this brings many challenges in different social areas of the society. Due to the changing age structure of the population, changes will be needed in many areas, such as the education system and the labour market, social benefits schemes, living environment and the areas of civil and political education.

Detailed legal regulations exist in various areas of society. Due to the ageing of the population, regulatory framework of these different social areas needs to be adapted. The ageing of the population affects various areas of law, such as social security law, labour law, family law, inheritance law, law of obligations, etc. The aforementioned areas of law generally have their own separate legal frameworks in place and do not have any common features. Due to its effects, the reform of legal framework for older people cannot be addressed individually by areas, but needs to be addressed

comprehensively and systematically as a whole. Some of the mentioned legal areas already regulate the position of elderly, but these regulations are often inadequate and outdated. The current adapted legislation is inadequate, as it does not take into account the specific position of elderly and does not contain provisions to protect their legal situation, even though this would be necessary.

Economic capacity of society needs to be taken into consideration when regulating the position of elderly in the specific society. All European countries are faced with the problem of how to ensure a sustainable public social security system and are looking for alternative options to ensure financial stability for future generations. One of the fundamental questions arising from this problem is the question of the division between public and private insurance systems. When preparing recommendations and proposals for an improved regulatory framework for the elderly, it is important to consider the economic effects that such a proposed regulatory framework would have on individuals and the country concerned.

The proposed research will be the first systematic review of the effects that the ageing population has on the Slovenian regulatory framework as a whole. The research will review the currently valid legislation; identify its shortcomings, conduct research of foreign comparable legal frameworks and EU law, and provide recommendations and proposals for the reform of the legal framework for older people. When researching and proposing necessary improvements, the research will not only focus on analysing individual legal areas, but will form unified starting points for the protection of elderly in all legislation as a whole and (in accordance with the unified starting points) propose systematic reforms of legislation, which shall assure comprehensive and systematic protection of elderly in various areas of law. The research is specifically original as it will be interdisciplinary, which means that it shall include various distinguished legal and economic experts. The findings of the research will be presented in two scientific monographs and in two scientific conferences with international participation. In legal scientific sphere, there has been no scientific monograph that has systematically and comprehensively studied the impact of population change on legislation, therefore these monographs will represent an original contribution to Slovenian jurisprudence.

Project: Law of debtors and creditors-a normative and empirical legal analysis

Principal Investigator: Jaka Cepec UL PF (principal investigator at SEB LU Rok Spruk)

Funding Entity: Slovenian Research Agency

Amount: 30.004 €

Project Timeframe: 2019-2022

The legal regulation of the relationship between the debtor and his creditor(s) is one of the most important legal regulations in a modern, economy- and consumer-oriented society. The legal regulation of this relationship is divided into two main areas of law namely the law of individual enforcement proceedings and the law of insolvency. The main difference between these two areas of law is that individual enforcement law regulates the proceedings of an individual creditor claiming payment of his due debts, while insolvency law regulates the issues of general enforcement against the assets of the insolvent debtor with the purpose of paying all of (multiple) creditors of the debtor. Insolvency proceedings are considered to be general enforcement proceedings over an insolvent debtor with multiple creditors.

From the Law and Economics perspective, insolvency law has a valid reason only because, due to the well-known common pool problem, individual enforcement with multiple creditors should be less efficient than those of insolvency law according to the rules of game theory. This means that an efficient legal system should use insolvency law proceedings only if they are more efficient with a debtor with multiple creditors than a set of individual enforcement proceedings would be. On the other hand, there is a strong theoretical strand in the literature that opposes the legal and economic logic. This strand of thought follows the idea that both procedures pursue quite different goals and as a consequence cannot be directly compared.

The first core goal of our proposed research project is to bring additional, more European insights into the, more or less U.S. oriented debate on the question of how similar or different the goals of the compared areas of law are or should be and what theoretical limitations one has to set in order to provide a meaningful and justified efficiency comparison.

There is a very well-established literature on the economic efficiency of insolvency proceedings, but surprisingly, to the best of our knowledge, there is virtually no legal or economic theory on the efficiency of individual enforcement laws. Since theory has not yet established generally accepted standards for measuring the efficiency of individual enforcement proceedings at this time point, we are not able to compare the economic efficiency of these proceedings with jurisdictions that regulate similar legal relationships, namely the relationship between a debtor and its creditor(s).

As a result, our second core goal is to develop a coherent legal and economic definition of criteria that would define potential metrics for analyzing the economic efficiency of an individual enforcement procedure, considering the limits defined by the fundamental rights of debtors.

A comprehensive assessment of the ex-post efficiency of the Slovenian insolvency law system is the third goal of our proposed project. Since we have been working in this field for years and have started to establish handmade datasets on Slovenian insolvency law cases, this project would enable us to finally connect our efforts into a complete assessment. For the purpose of the third goal we will prepare a huge, hand-collected dataset of more than 4,000 insolvency cases from the Slovenian Court Records.

The fourth part of our proposed project also addresses a rather novel topic. Both areas of law deal with issues that are traditionally very politically sensitive, and legislators are often very inclined to follow the public opinion, which is generally very hostile to debtors. The public predominantly associates debtors with criminals and fraudsters, although the circumstances of individual cases can be very sensitive and differ from this general perception. Regardless, non-paying debtors behave in ways that are socially deviant, and understanding their behavior would help to better assess the procedures and methods used when forcing them to comply with conformist roles.

Project: Creating social value with age-friendly housing stock management in lifetime neighborhoods

Principal Investigator: David Bogataj INRISK (principal investigator at SEB LU Vlado Dimovski)

Funding Entity: Slovenian Research Agency

Amount: 26.660 €

Project Timeframe: 2019-2022

The proposal belongs to priority 6: MYBL. As a final goal, we will develop a new account of the social value that needs to be created when investing in age-friendly housing facilities within lifelong neighbourhood communities. Many articles in scientific journals and national plans have written about needs for such tools that do not yet exist.

The main objective of the proposed project is: (a) to develop a model for assessing the social value of investments in social infrastructure, which is reflected primarily in lower health and other operational costs of care; and (b) to propose the design of a database, which will enable a more accurate evaluation of social value and better planning of investments. We will suggest also fundraising for these investments.

Municipalities are responsible for organizing and funding long-term-care services. These expenditures will triple (e.g. to 9.5% of GDP in Norway). The aim is to investigate the exposure to risk of older adults and disabled residents in cities, the expenditure on care and the benefits of the built environment in (a) Senior Villages, (b) Independent Living Communities, (c) Assisted Living Facilities, (d) Nursing Home, (e) CCRC and (f) challenge of investments in better Aging in Place. Spatial planning, development and management of safety in the lifetime neighbourhoods, as a risk mitigation reduction

strategy, is of specific interest. We wish to evaluate how the particular solutions from (a) to (e) can be implemented in (f) and how this will mitigate the risk of accidents and social exclusion, creating social value for the community. The creation of social value is measured using the multi-state competitive risk approach, which is a novelty in this research area. The multi-state competitive risk model used in disability insurance has never been used for the evaluation of investments. The actuarial present value will provide scientific evidence of the benefits of developing and managing various lifelong neighbourhoods and living arrangements. We will collect available data from 5 countries, most EU member states and Florida, USA, as well as some data from Australia where the assisted living is very well developed. In the survey, we will include 1000 residents from 20 neighbourhoods. Social value will be measured as the difference between the actuarial present value of housing and services in the age-friendly or life-time neighbourhood and the neighbourhood, which is not age-friendly.

In the proposed project, we will combine three different scientific areas: (a) the study of the quality of built environment for the use of senior citizens, (b) reliability engineering, and (c) actuarial science – the analysis of time-to-event data ('survival analysis'). The studies of (a) and (b) will be used to develop a proper database for the analysis of risk drivers in the competing risk multi-state model of transitions from community living to the nursing home with options to return to assisted living communities.

The research conducted at the Faculty contributes to the quality of its programmes and also serves the needs of corporate clients. SEB LU promotes courage, acumen, diversity and innovation in research and motivates researchers to publish their findings. SEB LU has made notable progress in its overall research quality and has increased the rate of publication in international journals.

In 2020, SEB LU research output was presented in 94 published peer-reviewed articles, including 11 in the premium category (A* journals) and 21 in the top-tier category (A journals). The research achievements were also disseminated to the academic public through 5 scientific books and 39 book chapters, 13 of which were published by leading international scientific publishers. In addition, 41 studies were conducted, 19 of which were part of international research networks.

In this section, the main papers published in 2020 and a best paper award for 2019 are presented.

PREMIUM RESEARCH PAPERS IN 2020

Manzoni, L., Bartoli, A., **Castelli, M.**, Gonçalves, I., Medvet, E. (2020). Specializing context-free grammars with a (1+1)-EA. *IEEE transactions on evolutionary computation*, ISSN 1089-778X. [Print ed.], Oct. 2020, vol. 24, iss. 5, 960-973.

Dolnicar, S., Juvan, E., Grün, B. (2020). Reducing the plate waste of families at hotel buffets - a quasi-experimental field study. *Tourism management*, 80, 104103.

Viglia, G., **Dolnicar, S.** (2020). A review of experiments in tourism and hospitality. *Annals of Tourism Research*, 80, 102858.

Dolnicar, S. (2020). Designing for more environmentally friendly tourism. *Annals of Tourism Research*, 84, 102933.

Dolšak, J., Hrovatin, N., Zorič, J. (2020). Factors impacting energy-efficient retrofits in the residential sector: the effectiveness of the Slovenian subsidy program. *Energy and buildings*, 229, 110501.

Andresen, M., Apospori, E., **Kaše, R.**, et al. (2020). Careers in context: an international study of career goals as mesostructure between societies' career-related human potential and proactive career behaviour. *Human resource management journal*, 30(3), 365-391.

Kaše, R., Dries, N., Briscoe, J. P., et al. (2020). Career success schemas and their contextual embeddedness: a comparative configurational perspective. *Human resource management journal*, 30(39), 422-440.

Kokol-Bukovšek, D., Košir, T., **Mojškerc, B.**, Omladič, M. (2020). Asymmetric linkages: maxmin vs. reflected maxmin copulas. *Fuzzy sets and systems*, 393, 75-95.

Mihalič, T. (2020). Conceptualising overtourism: a sustainability approach. *Annals of Tourism Research*, 84, 103025.

Pustovrh, A., Rangus, K., Drnovšek, M. (2020). The role of open innovation in developing an entrepreneurial support ecosystem. *Technological forecasting and social change*, 152, 119892.

Halužan, M., **Verbič, M., Zorič, J.** (2020). Performance of alternative electricity price forecasting methods: findings from the Greek and Hungarian power exchanges. *Applied energy*, 277, 115599.

BEST PAPER AWARD 2019

To pursue its goal of promoting and contributing to the quality of research, SEB LU has established an annual awards programme. The programme is open to authors of articles from the SEB LU.

The School of Economics and Business awards for the best scientific articles published in 2019 are given to:

Kaše, R., Saksida, T., **Mihelič, K. K.** (2019). Skill development in reverse mentoring: motivational processes of mentors and learners. *Human resource management*, 58(1), 57-69.

Mihelič, K. K., Culiberg, B. (2019). Reaping the fruits of another's labor: the role of moral meaningfulness, mindfulness, and motivation in social loafing. *Journal of business ethics*, 160(3), 713-727.

Harrison, S., Carlsen, A., **Škerlavaj, M.** (2019). Marvel's blockbuster machine. *Harvard business review*, 97(4), 136-145.

HIGHLY COMMENDED PAPERS 2019

Božič, K., Dimovski, V. (2019). Business intelligence and analytics for value creation: the role of absorptive capacity. *International journal of information management*, 46, 93-103.

Smale, A., Bagdadli, S., Cotton, R., Dello Russo, S., Dickmann, M., Dysvik, A., Gianecchini, M., **Kaše, R.**, Lazarova, M., Reichel, A., Rozo, P., Verbruggen, M. (2019). Proactive career behaviors and subjective career success: the moderating role of national culture. *Journal of organizational behavior*, 2019, vol. 40(1), 1-18.

Pavasović Trošt, T. (2019). Remembering the good: constructing the nation through joyful memories in school textbooks in the former Yugoslavia. *Memory studies*, 12(1), 27-45.

Oliveira, T., Martins, R., Sarker, S., Thomas, M., **Popovič, A.** (2019). Understanding SaaS adoption: the moderating impact of the environment context. *International journal of information management*, 49, 1-12.

Janke, J., Castelli, M., **Popovič, A.** (2019). Analysis of the proficiency of fully connected neural networks in the process of classifying digital images benchmark of different classification algorithms on high-level image features from convolutional layers. *Expert systems with applications*, 135, 12-38.

Ashrafi, A., Ravasan, A. Z., **Trkman, P.**, Afsari, S. (2019). The role of business analytics capabilities in bolstering firms' agility and performance. *International journal of information management*, 47, 1-15.

Kadić-Maglajlić, S., Micevski, M., Lee, N., Boso, N., **Vida, I.** (2019). Three levels of ethical influences on selling behavior and performance: synergies and tensions. *Journal of business ethics*, 156(2), 277-397.

SCHOLARY IMPACT



Impact is at the forefront of our minds. In terms of scholarly impact, SEB LU is proud of numerous influential articles over the decade. Compared to 2010-2014, the number of articles has almost doubled in 2016 - 2020, while the h-index increased more than twice.

COMPARISON OF NUMBER OF ARTICLES AND H-INDEX BY PERIODS

	2010-2014	2011-2015	2012-2016	2013-2017	2014-2018	2015-2019	2016-2020
Number of articles	287	320	375	406	437	479	502
Number of citations	2.877	3.908	5.036	6.502	8.337	11.123	14.000
Number of citations per publication	9,69	12,21	13,43	16,01	19,08	23,22	27,89
SEB LU h-indeks	23	28	32	35	42	47	52

Source: Sicris 12. 2. 2020.

THE MOST INFLUENTIAL / HIGHLY CITED PAPERS BY WEB OF SCIENCE (WOS) IN 2020

Research Paper	CI
Župič, I., Čater, T. (2015). Bibliometric methods in management and organization. <i>Organizational research methods</i> , 18(39), 429-472.	207
Cardon, M. S., Wincent, J., Singh, J., Drnovšek, M. (2009). The nature and experience of entrepreneurial passion. <i>The Academy of Management review</i> , 34(3), 511-532.	112
Hoang, H., Antončič, B. (2003). Network-based research in entrepreneurship a critical review. <i>Journal of business venturing</i> , 18(2), 165-187.	98
Martins, C., Oliveira, T., Popovič, A. (2014). Understanding the Internet banking adoption a unified theory of acceptance and use of technology and perceived risk application. <i>International journal of information management</i> , 34(1), 1-13.	90
Juvan, E., Dolnicar, S. (2014). The attitude-behaviour gap in sustainable tourism. <i>Annals of Tourism Research</i> , 48, 76-95.	60
Kolar, T., Žabkar, V. (2010). A consumer-based model of authenticity an oxymoron or the foundation of cultural heritage marketing. <i>Tourism management</i> , 31(5), 652-664.	59
Oliveira, T., Faria, M., Abraham T., Manoj, Popovič, A. (2014). Extending the understanding of mobile banking adoption when UTAUT meets TTF and ITM. <i>International journal of information management</i> , 34(5), 689-703.	55
Antončič, B., Hisrich, R.D. (2001). Intrapreneurship construct refinement and cross-cultural validation. <i>Journal of business venturing</i> , 16(5), 495-527.	55
Žabkar, V., Zalaznik, M., Dmitrovič, T. (2010). Modelling perceived quality, visitor satisfaction and behavioural intentions at the destination level. <i>Tourism management</i> , 31(4), 537-546.	41
Trkman, P. (2010). The critical success factors of business process management. <i>International journal of information management</i> , 30(2), 125-134.	37
Benitez, J., Henseler, J., Castillo, A., Schuberth, F. (2020). How to perform and report an impactful analysis using partial least squares guidelines for confirmatory and explanatory IS research. <i>Information & Management</i> , 57(2) 103168.	36
Marques Da Silva, C., Trkman, P. (2014). Business model what it is and what it is not. <i>Long range planning</i> , 47, (6), 379-389.	35
Mending, J., Weber, I., Aalst, W. M. P. Van Der, Brocke, Jan Vom, et al. (2018) Blockchains for business process management - challenges and opportunities. <i>ACM transactions on management information systems</i> , 9(1), 4.	35
Zeugner-Roth, K. P., Žabkar, V., Diamantopoulos, A. (2015). Consumer ethnocentrism, national identity, and consumer cosmopolitanism as drivers of consumer behavior a social identity theory perspective. <i>Journal of international marketing</i> , 23(2), 25-54.	34
Chen, Y., Wang, Y., Nevo, S.i, Benitez, J., Kou, G. (2015). IT capabilities and product innovation performance the roles of corporate entrepreneurship and competitive intensity. <i>Information & Management</i> , 52(6), 643-657.	34
Konečnik Ruzžier, M., Gartner, W. C. (2007). Customer-based brand equity for a destination. <i>Annals of Tourism Research</i> , 34(2), 400-421.	33
Trkman, P., McCormack, K. P., Valadares De Oliveira, M. P., Bronzo, M. (2010). The impact of business analytics on supply chain performance. <i>Decision support systems</i> , 49(3), 318-327.	33
Mihalič, T. (2000). Environmental management of a tourist destination a factor of tourism competitiveness. <i>Tourism management</i> , 21(1), 65-78.	33
Trkman, P., McCormack, K. P. (2009). Supply chain risk in turbulent environments - a conceptual model for managing supply chain network risk. <i>International journal of production economics</i> , 119(2), 247-258.	32
Černe, M., Hernaus, T., Dysvik, A., Škerlavaj, M. (2017). The role of multilevel synergistic interplay among team mastery climate, knowledge hiding, and job characteristics in stimulating innovative work behavior. <i>Human resource management journal</i> , 27(2), 281-299.	31
Štiglic, M., Agatz, N., Savelsbergh, M., Gradišar, M. (2015). The benefits of meeting points in ride-sharing systems. <i>Transportation research. Part B, Methodological</i> , 82, 36-53.	31
Dolnicar, S., Yanamandram, V., Cliff, K. (2012). The contribution of vacations to quality of life. <i>Annals of Tourism Research</i> , 39(1), 59-83.	31
Bogilović, S., Škerlavaj, M., Černe, M. (2017). Hiding behind a mask? cultural intelligence, knowledge hiding, individual and team creativity. <i>European journal of work and organizational psychology</i> , 26(5), 710-723.	30
Mihalič, T. (2016). Sustainable-responsible tourism discourse towards 'responsustainable' tourism. <i>Journal of cleaner production</i> , 111(B), 461-470.	30
Cimperman, M., Zalaznik, M., Trkman, P. (2016). Analyzing older users' home telehealth services acceptance behavior - applying an Extended UTAUT model. <i>International journal of medical informatics</i> , 90, 22-31.	30

Source: Sicris 12. 2. 2020.

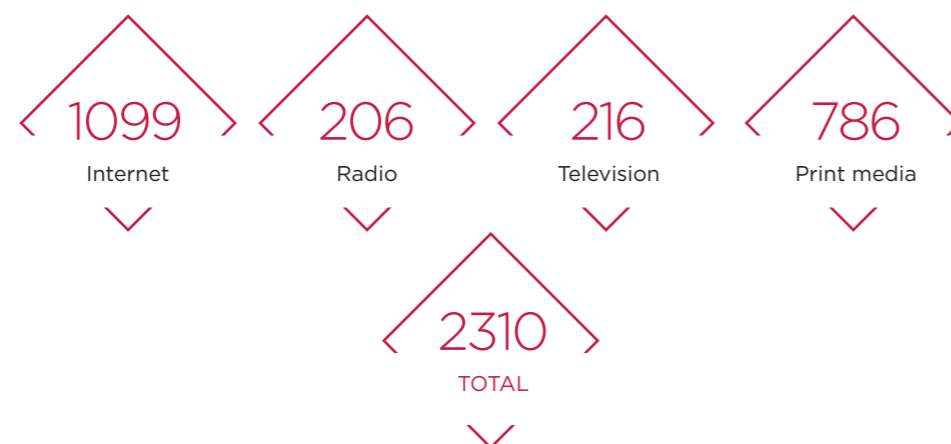
RESEARCHERS WITH HIGHEST H-INDEX IN 2020

Researcher	H-Index
Dolnicar, Sara	28
Trkman, Peter	21
Škerlavaj, Miha	18
Popovič, Aleš	18
Vida, Irena	17
Černe, Matej	16
Knežević Cvelbar, Ljubica	16
Mending, Jan	16
Mihalič, Tanja	15
Castelli, Mauro	15

Source: Sicris 12. 2. 2020.

SOCIETAL IMPACT

Dissemination is a strategically important part of the SEB LU's research excellence that the school and its entire staff implement on a daily basis. Through consistent efforts and dissemination of research work, SEB LU, as an educational and research institution in the field of social sciences, consolidates the presence of economics in the public domain. Through a systematic presence, it educates and empowers the public to understand economic facts. By interpreting them, it enables science-based news as an antipode to the so-called fake news, thus strengthening the media space and opinion makers. This is SEB LU's contribution to the understanding of society, economy and business. The tools for this understanding are the tools of communicating science, addressing each audience in a context that is appropriate and understandable to them. According to the quantitative analysis of the media presence of SEB LU and its researchers, prepared by the company Kliping d.o.o., in 2020, SEB LU had a total of **2,310 publications** in various media, the gross value of which amounted to **10,165,475 euros**.

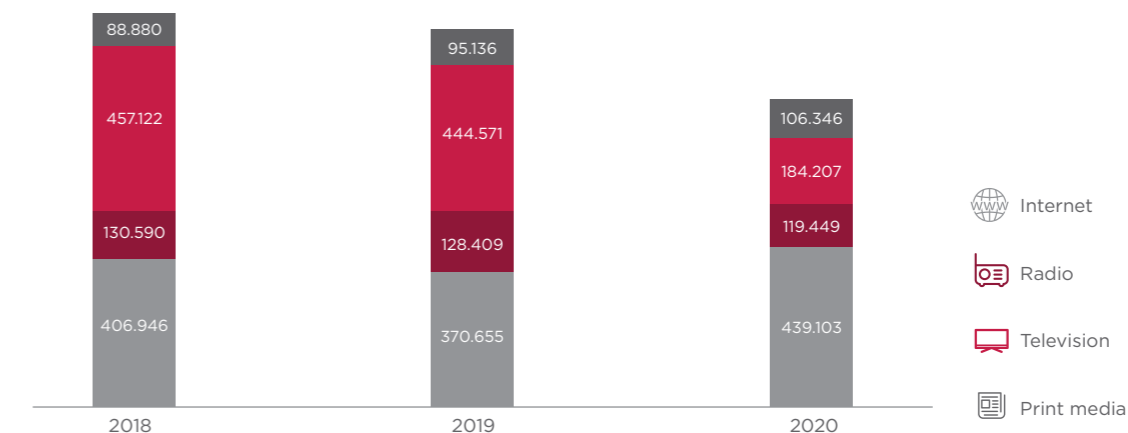


Source: Kliping d.o.o., November 2020.

NUMBER OF PUBLICATIONS BY TYPE OF MEDIA

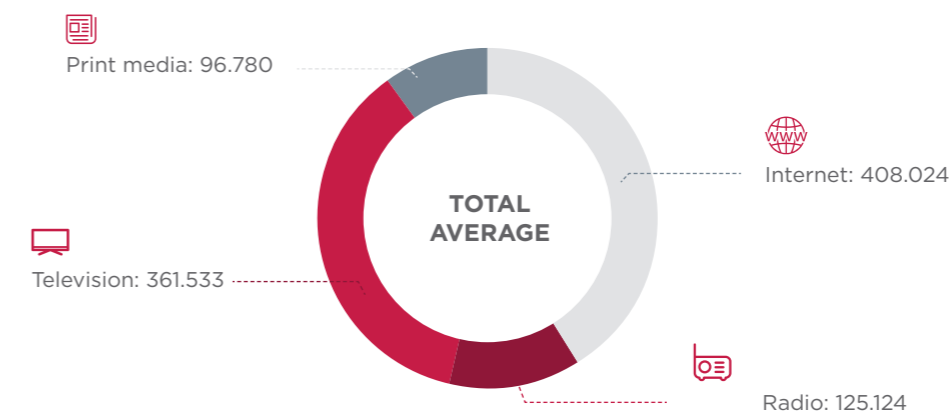
SEB LU has reached a cumulative reach of 604,883,457 publications in 2020. Over the past three years, SEB LU and its researchers reached an average of 408,024 people via the Internet, 125,124 people via radio, 361,533 people via television, and 96,780 people via selected print media.

AVERAGE REACH OF PUBLICATIONS BY TYPE OF MEDIA BY YEARS



Source: Kliping d.o.o., November 2020.

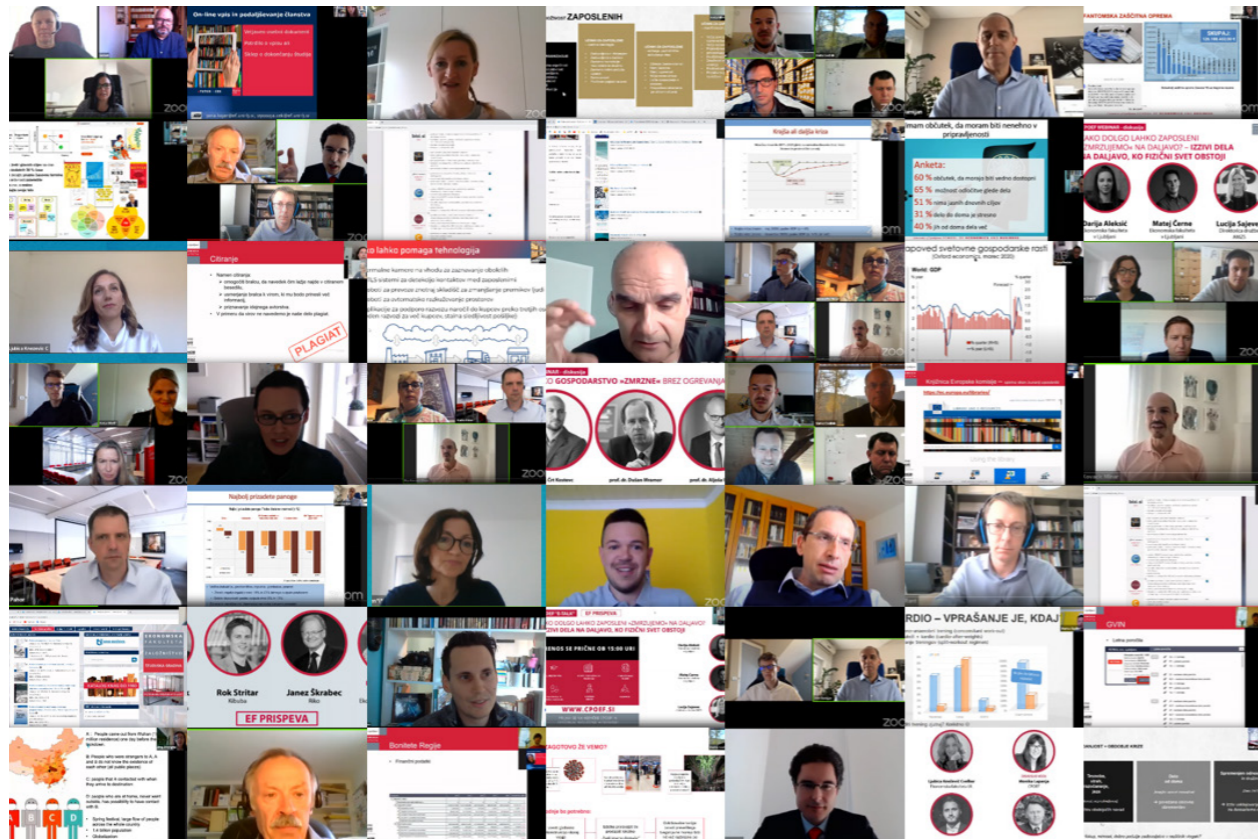
TOTAL AVERAGE REACH OF PUBLICATIONS BY TYPE OF MEDIA



Source: Kliping d.o.o., November 2020.

SEB LU CONTRIBUTES

The outbreak of a new coronavirus and the declaration of a global pandemic brought many challenges to society as a whole. It had a significant impact on individuals, on business education and therefore on SEB LU and on our partners - students, businesses and the business community. At SEB LU, we wanted to act as responsibly as possible from the very beginning. Indeed, we were aware of the fact that as the leading institution in the field of economic and business education in the country, we have a responsibility towards society as a whole. Accordingly, we prepared advice and suggestions as well as specific content for all our stakeholders, both directly and through media posts and webinars, in four different categories of communication content: EF informs, EF helps, EF contributes, and EF personal. With the help of our professors and the Center of Business Excellence (CBE), more than 43 different open webinars were held in 31 days from March to May 2020, attended by more than 30,000 participants. In addition, faculty colleagues assisted the Slovenian government in preparing economic recovery measures during and after the Corona crisis.



AWARDS AND RECOGNITIONS

We are proud that our efforts have been widely recognized in our institutional environment. School and our colleagues have received numerous awards:

- **SEB LU** was awarded the **Prometeus Award for Excellence in Science Communication** by the Slovenian Science Foundation,



- **Prof. Dr. Miha Škerlavaj** received the **Zois recognition** for his contribution to world science in the field of understanding knowledge and innovation management.
- two **Excellent in Science** awards by the **Slovenian Research Agency** for the articles:
 - Dominko, M., **Verbič, M.** (2019). The economics of subjective well-being. a bibliometric analysis. Journal of happiness studies, 20(6), 1973-1994.
 - **Božič, K., Dimovski, V.** (2019). Business intelligence and analytics use, innovation ambidexterity, and firm performance. a dynamic capabilities perspective. Journal of Strategic Information Systems, 28(4,101578), 1-20.
- **Prof. dr. Robert Kaše** received **Best Research Achievements** award by the **University of Ljubljana** for the article:
 - **KAŠE, Robert, DRIES, Nicky, BRISCOE, Jon P., COTTON, Richard D., APOSPORI, Eleni, BAGDADLI, Silvia, ÇAKMAK-OTLUOĞLU, K. Övgü, CHUDZIKOWSKI, Katharina, DYSVIK, Anders, GIANECCHINI, Martina, SAXENA, Richa, SHEN, Yan, VERBRUGGEN, Marijke, ADELEYE, Ifedapo, BABALOLA, Olusegun, CASADO, Tania, CERDIN, Jean-Luc, KIM, Najung, KUMAR MISHRA, Sushanta, UNITE, Julie, FEI, Zhangfeng.** Career success schemas and their contextual embeddedness: a comparative configurational perspective. Human resource management journal, ISSN 0954-5395, Spec. ed., Jul. 2020, vol. 30, iss. 3, 422-440.

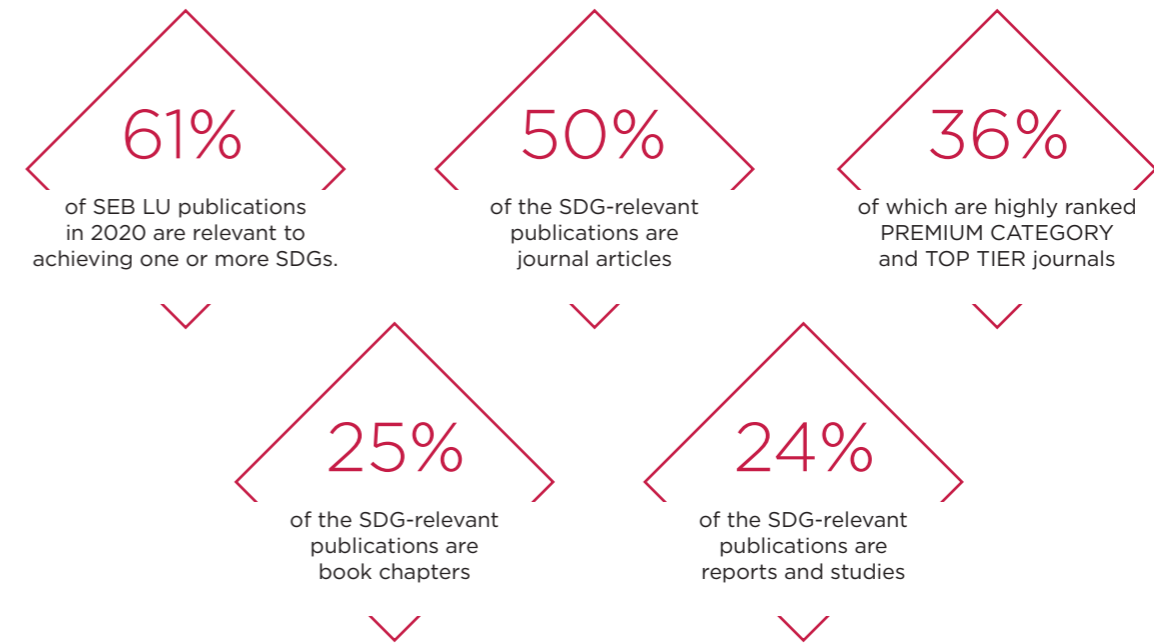


MAPING OF SDG-RELEVANT RESEARCH AT SEB LU



In 2020, SEB LU began mapping how our research is relevant to achieving the UN Sustainable Development Goals (SDGs).

SOME STATISTICS FOR 2020 :



In 2020, SEB LU publications contributed to **14 SDGs**:

SDG	NUMBER OF PUBLICATIONS
SDG 8	46
SDG 9	30
SDG 12	29
SDG 3	27
SDG 11	19
SDG 10	16
SDG 16	5
SDGH 17	4
SDG 4	4
SDG 5	3
SDG 7	3
SDG 13	3
SDG 1	1
SDG 2	1

THE TOP FOUR SDGS SEB LU RESEARCH CONTRIBUTES ARE:



Highlights of papers contributing to SDGs



Dolnicar, S., Juvan, E., Grün, B. (2020). Reducing the plate waste of families at hotel buffets - a quasi-experimental field study. *Tourism management*, 80, 104103.

Twenty percent of all global greenhouse emissions are food-related. Tourism and hospitality contribute significantly, with food accounting for nearly half of the waste these sectors produce. One type of food waste – plate waste – could easily be avoided. Plate waste is the food people leave behind uneaten on their plates. It does not increase the enjoyment of the meal, yet costs the hotel money, and harms the environment. Authors develop and test – in a quasi-experimental field study – a game-based intervention that reduces plate waste by 34 percent, and is available for immediate adoption by hotels globally. Their study contributes to theory by demonstrating the power of increasing pleasure in pleasure-seeking contexts when aiming to change environmentally significant tourist behaviour. Their findings also challenge established behavioural theories, which postulate that people’s beliefs are the key drivers of pro-environmental behaviour.

Source: <https://www.sciencedirect.com/science/article/pii/S0261517720300297>

Dolnicar, S. (2020). Designing for more environmentally friendly tourism. *Annals of Tourism Research*, 84, 102933.

The environmental (un)sustainability of the tourism industry has been debated for many decades. This debate generated ample empirical evidence of the environmental damage caused by tourism-related human activity. It is underpinned, however, by a passive position: one of largely accepting the tourism industry as it is, and lamenting its negative consequences. An alternative, more active approach, is to deliberately design for environmental sustainability. This article provides examples of how the tourism industry can drive a reduction of environmental damage by actively designing brand-owned touchpoints in a way that entice tourists to behave more environmentally friendly. The article concludes with an overview of promising design approaches and a framework to guide the future design of more environmentally friendly tourism services.

Source: <https://www.sciencedirect.com/science/article/pii/S0160738320300773>

Dolšak, J., Hrovatin, N., Zorić, J. (2020). Factors impacting energy-efficient retrofits in the residential sector: the effectiveness of the Slovenian subsidy program. *Energy and buildings*, 229, 110501.

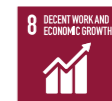
This study assesses the effectiveness of the Slovenian subsidy program introduced in 2009 on household decisions for energy-efficient building retrofits. A discrete choice regression model with individual random effects is estimated, using a retrospective panel data of 6,882 Slovenian households covering the period from 2006 to 2014. The objective of this study is to identify factors that influence the decisions of Slovenian households to undertake energy-efficient retrofits of their homes and to examine the effectiveness of the subsidy program. The results reveal decisive factors for implementing energy-efficient retrofits to be a household’s financial status, past retrofit activity, the location of homes, the building’s age and type, and electricity expenditures. Regional climate differences and economic activity (GDP p.c.) also trigger energy-efficient retrofits. During the period between 2009 and 2011, the subsidy program proved to be ineffective, implying the presence of free-riders. In contrast, evidence on the positive effect of the program on retrofit rates in the years 2012 to 2014 was found with a varying share of free-riders. In 2012, free-ridership was not detected, coinciding with a significantly increased amount of available funds, while in the following years the share of free-riders increased to 52.3% and 62.0%, respectively.

Source: <https://www.sciencedirect.com/science/article/pii/S0378778820317278>

SDG 11, 12 AND 13

Andresen, M., Apospori, E., Kaše, R., et al. (2020). Careers in context: an international study of career goals as mesostructure between societies’ career-related human potential and proactive career behaviour. *Human resource management journal*, 30(3), 365-391.

Careers exist in a societal context that offers both constraints and opportunities for career actors. Whereas most studies focus on proximal individual and/or organisational level variables, authors provide insights into how career goals and behaviours are understood and embedded in the more distal societal context. More specifically, they operationalise societal context using the career-related human potential composite and aim to understand if and why career goals and behaviours vary between countries. Drawing on a model of career structuration and using multilevel mediation modelling, authors draw on a survey of 17,986 employees from 27 countries, covering nine of GLOBE’s 10 cultural clusters, and national statistical data to examine the relationship between societal context (macrostructure building the career-opportunity structure) and actors’ career goals (career mesostructure) and career behaviour (actions). They show that societal context in terms of societies’ career-related human potential composite is negatively associated with the importance given to financial achievements as a specific career mesostructure in a society that is positively related to individuals’ proactive career behaviour. Their career mesostructure fully mediates the relationship between societal context and individuals’ proactive career behaviour. In this way, they



expand career theory's scope beyond occupation and organisation related factors.

Source: <https://onlinelibrary.wiley.com/doi/full/10.1111/1748-8583.12247>



Kaše, R., Dries, N., Briscoe, J. P., et al. (2020). Career success schemas and their contextual embeddedness: a comparative configurational perspective. *Human resource management journal*, 30(39), 422-440.

Authors introduce career success schemas as critical for understanding how people in different contexts perceive and understand career success. Using a comparative configurational approach, they show, in a study of 13 countries, that two structural characteristics of career success schemas—complexity and convergence—differ across country contexts and are embedded in specific configurations of institutional factors. Adopting complexity and convergence as primary dimensions, they propose a taxonomy of career success schemas at the country level. Based on this taxonomy, they contribute to the understanding of subjective career success across countries, discuss the importance of schemas for organisational career systems in multinational enterprises, and propose specific guidelines for future comparative careers research.

Source: <https://onlinelibrary.wiley.com/doi/abs/10.1111/1748-8583.12218>



Mihalič, T. (2020). Conceptualising overtourism: a sustainability approach. *Annals of Tourism Research*, 84, 103025.

This paper conceptualises a new tourism phenomenon: overtourism. Conceptualisation is based on relevant tourism knowledge on sustainability and related responsibility. The proposed model, presented in concise pictorial form, brings together the tourism capacities of the 'sustainability pillars' as well as the novel 'socio-psychological' and 'socio-political' capacities. Ultimately, the model may assist in monitoring, diagnosing and influencing the risks of any unsustainable tourism situation. The proposed novel capacities add to growing academic call to revisit the contemporary academic and practical approaches to tourism and sustainability, based on its low efficacy in practice. Paper suggests to extend and update the existing sustainable tourism paradigm to encourage more sustainable tourism strategies, policies and their more effective implementation.

Source: <https://www.sciencedirect.com/science/article/pii/S0160738320301699>



Pustovrh, A., Rangus, K., Drnovšek, M. (2020). The role of open innovation in developing an entrepreneurial support ecosystem. *Technological forecasting and social change*, 152, 119892.

In this study, authors use the open innovation paradigm to analyze the development of an entrepreneurial support ecosystem. They argue that business accelerators play a critical role within an emerging entrepreneurial ecosystem. Their analysis draws on qualitative data from a business accelerator in such a context. They suggest that, in environments that have underdeveloped entrepreneurial support ecosystems, public policy should endorse the open innovation activities of key actors in entrepreneurial ecosystems. By harnessing open innovation, an accelerator forges a broader network of relationships with actors outside of the system, which in turn increases the capacity within the system and embeds it within a global innovation system.

Source: <https://www.sciencedirect.com/science/article/pii/S0040162518315488>

The whole list of SEB LU publications contributing to SDGs is in the Appendix.

DOCTORAL PROGRAM

PROFILE OF STUDENTS ENROLLED IN DOCTORAL PROGRAMME IN ECONOMICS AND BUSINESS

YEAR	2020/2021
Number of students	80
Full-time	75
Part-time	5
Average age	34.2
Average years of work experience	6.25
Share of international students (in %)	43.8
Share of female students (in %)	60.0

SEB LU offers Doctoral Program in Economics and Business. The Doctoral Programme in Economics and Business provides in-depth scientific research skills in both the broader and more focused areas of economics and business, and develops the skills needed to conduct such research at an internationally competitive level. SEB LU is a member of the European EDAMBA Doctoral Programme and CESENET (the Central and SE European Doctoral Network), so students become actively involved with renowned academic institutions. Doctoral students may choose from courses, seminars, and workshops organised by SEB LU, partner institutions within the network of doctoral programmes and international schools with accredited doctoral programmes. Doctoral students are strongly encouraged to complete part of the programme abroad at a school or an institution approved by the student's mentor or Doctoral Programme Unit Head. The remaining time in the programme is devoted to conducting research and writing the doctoral dissertation.

SEB LU IS ALSO A PARTNER IN CONSORTIA OF SCHOOLS WITHIN THE UNIVERSITY OF LJUBLJANA PROVIDING INTERDISCIPLINARY DOCTORAL PROGRAMMES:

- **Interdisciplinary Doctoral Programme in Statistics** (jointly with the Biotechnical Faculty, the Faculty of Social Sciences, the Faculty of Electrical Engineering, the Faculty of Mathematics and Physics, the Faculty of Arts, and the Faculty of Medicine); and
- **Interdisciplinary Doctoral Programme in Environmental Protection** (jointly with the Biotechnical Faculty, the Faculty of Social Sciences, the Faculty of Civil Engineering and Geodesy, the Faculty of Chemistry and Chemical Technology, the Faculty of Mathematics and Physics, the Faculty of Maritime Studies and Transport, the Faculty of Mechanical Engineering, the Faculty of Arts, the Faculty of Medicine, the Faculty of Natural Sciences and Engineering, the Faculty of Law, and the Veterinary Faculty).

In 2020, 13 PhD students graduated from the SEB LU Doctoral Program in Economics and Business (see Appendix).

DOCTORAL SUMMER'S SCHOOL IN 2020:

- **Ljubljana Doctoral Summer School** (13-17 & 20-24 July 2020) having a vision of providing a learning experience with significant and lasting added value, offering specialised courses and inviting renowned professors. Each of the courses is offered within a week of intense work in English. Ljubljana Doctoral Summer School is a programme intended for PhD students, postdocs, academics, and professionals from different areas. Participation in the programme is a valuable opportunity to improve their knowledge and skills, network, gain new insights on research projects, as well as exchange ideas in an international environment. Ljubljana Doctoral Summer School 2020's programme consisted of seven highly intensive online courses, and was attended by 68 participants from 27 institutions and 18 different countries.

SEMINARS, WORKSHOPS AND CONFERENCES

RESEARCH SEMINARS

With the aim to disseminate research findings to the research and business communities, SEB LU organises research seminars. These seminars are organized in two different series, Business and Economics. The latter are organized in cooperation with the Bank of Slovenia.

At the beginning of 2020, 14 research seminars were scheduled to be held in spring only. Due to the Covid 19 crisis and associated travel restrictions, it was no longer possible to hold seminars with researchers from abroad at SEB LU premises. As seminars provide an environment conducive to intellectual debate and the opportunity to build collaborations with visiting researchers, most seminars have initially been postponed with the intention of being held at SEB LU when circumstances permitted, and later unfortunately cancelled or postponed until 2021.

Four research seminars were delivered via the online platform, two from each series. Petar Gidaković (SEB LU) and Aleksandar Nikolovski (PhD student at SEB LU) participated in Business series, and Andrej Srakar (IER, SEB LU) and Michael Scholz (University of Graz) in the Economic series.

SPEAKER	AFFILIATION	TITLE
Petar Gidaković	University of Ljubljana, School of Economics and Business	Using Qualtrics survey platform for online research
Aleksandar Nikolovski	PhD candidate at University of Ljubljana, School of Economics and Business	Determinants of country level employee overqualification: a configurational approach
Andrej Srakar	Institute for Economic Research, Ljubljana; University of Ljubljana, School of Economics and Business	Endogeneity modelling in static and dynamic MIMIC models
Michael Scholz	Department of Economics, University of Graz	Price-Rent Ratios and Expected Capital Gains: A Hedonic Spatio-Temporal Approach





WORKSHOPS AND CONFERENCES

DATE	CONFERENCES AND WORKSHOPS 2020 AT SEB LU	Organization/Host
November 12-13	Portorož Business Conference 2020	Finance and SEB LU
November 27	Research Polygon at the European Researcher's Night 2020 HUMANITIES ROCK! ¹	The Faculty of Arts, University of Ljubljana/SEB LU
December 4	9th Economic and Business Review Conference & SEB LU Doctoral Conference	SEB LU
December 17	SEB LU Research Day	SEB LU

IMB STUDENTS PRESENTING THEIR RESEARCH AT THE 23RD PORTOROŽ BUSINESS CONFERENCE

The 28th generation and their mentors prepared 14 articles on the topic of innovation, which were published in a book entitled "The Virus Aftermath: A SOCIO-ECONOMIC TWIST?" edited by Polona Domadenik, Matjaž Koman and Tjaša Redek. The book takes a look at the impact of Covid-19 on the Slovenian economy and business.

¹ This European Researchers' Night project is funded by the European Commission under the Marie Skłodowska-Curie actions. The project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 818237.

RESEARCH POLYGON AND THE EUROPEAN RESEARCHER'S NIGHT 2020 HUMANITIES ROCK

At the Research Polygon organised within the European Researchers' Night project »Humanities Rock«, four SEB LU researchers presented their research projects to high school students and actively engaged them in their reflection.



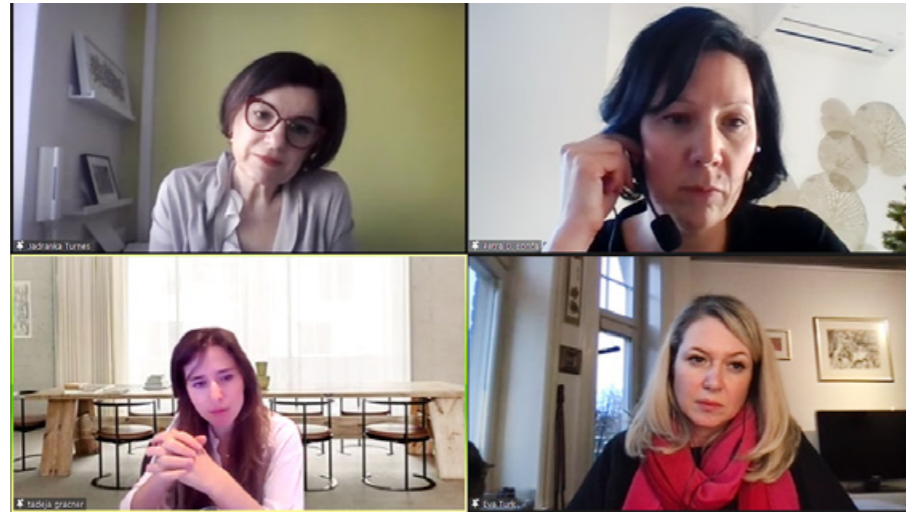
9TH ECONOMIC AND BUSINESS REVIEW CONFERENCE & SEB LU DOCTORAL CONFERENCE

The editorial team organised the virtual EBR Annual Conference & SEB LU Doctoral Conference 2020 on December 4, 2020. The conference addressed the challenges and opportunities of the economic reality that companies and countries are facing today in light of the difficult times caused by the Covid-19.



SEB LU RESEARCH DAY

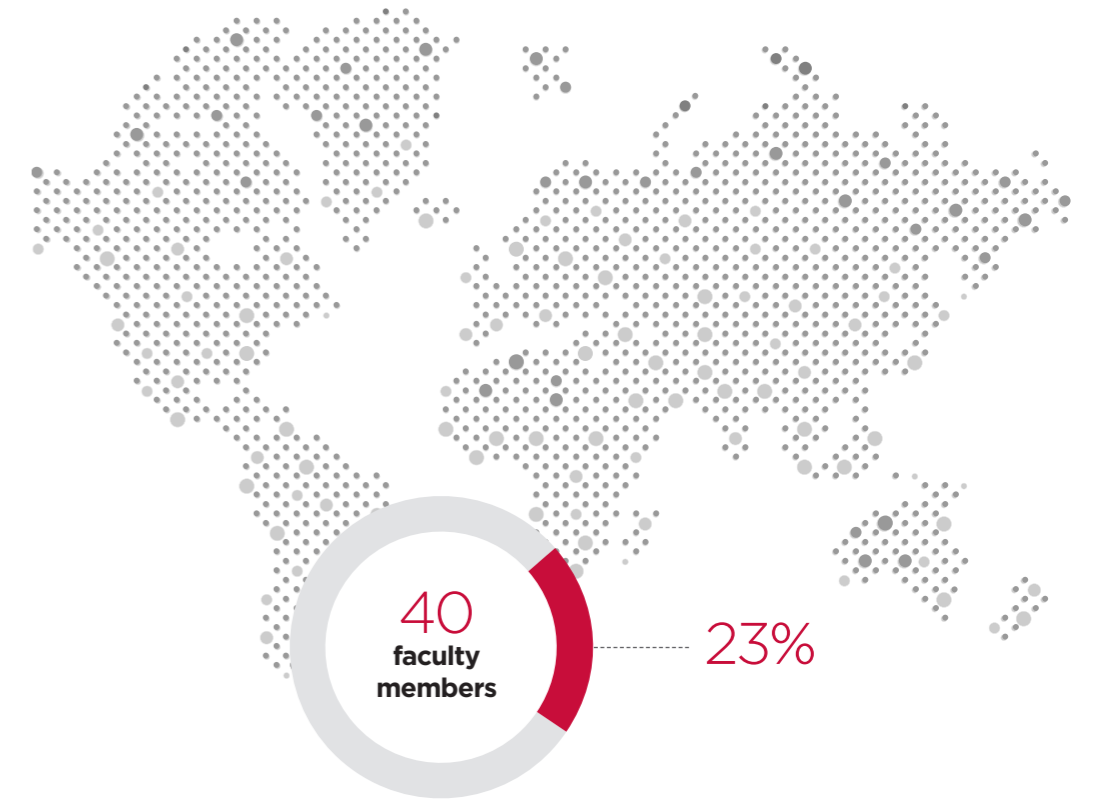
The traditional SEB LU Research Day, organised online on December 17, was welcomed by the SEB LU Dean, Prof. Dr. Metka Tekavčič and the Vice-Rector of UL, Prof. Dr. Matjaž Krajnc. During the virtual event, SEB LU Research Awards for 2019 were presented, showing our contribution to the global body of knowledge in many areas of economics. The award ceremony was followed by an interesting presentation by our alumna Dr. Tadeja Gračner (RAND Corporation), on the topic of economic aspects of obesity and chronic disease prevention and control. Tadeja was assisted in the discussion by Assoc. prof. dr. Eva Turk (University of Oslo) and Assoc. prof. dr. Petra Došenović Bonča (SEB LU).



POSITIONS ON EDITORIAL BOARDS

Many faculty members (both junior and senior faculty) have held positions on the editorial boards of 69 international academic journals, some of them in highly ranked SCI/SSCI/ABS journals like The Leadership quarterly, Journal of travel research, Journal of multinational financial management, Industrial management & data systems, Annals of tourism research, Human resource management review, Journal of small business management, Journal of sustainable tourism etc. The complete list of faculty members involved in these activities and the journals to which they contribute their valuable time and expertise is given in the Appendix. This has a positive impact on the scientific community.

PROPORTION OF SEB LU CORE FACULTY SERVING ON INTERNATIONAL EDITORIAL BOARDS: 40 FACULTY MEMBERS, 23%.



Central Economic Library is a leading and largest scientific and academic library for business and economics studies in Slovenia. Founded in 1947, it is an active member of the University's library system, the national library, and the COBISS information system. It supports the needs of faculty and students, researchers and individuals from other fields of study as well. The collection of more than 250,000 items comprises books, theses, research papers, periodicals and non-book materials in both paper and, increasingly, electronic form.

The Central Economic Library endeavours to ensure ongoing study support for all students and the faculty and provides a foundation for research work. The library maintains materials and information resources that users need for their studies and research work.

LIBRARY HIGHLIGHTS IN 2020

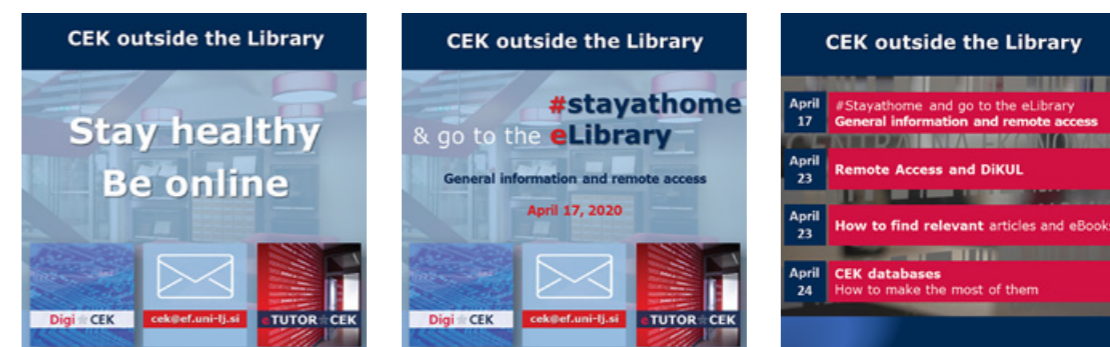


In 2020, the library ensured access to more than 100 licenced e-sources, including Ad Forum, Bloomberg Professional, Eikon with Datastream, Emerald, Fitch Connect, Orbis, Passport Global, ProQuest Business Premium Collection, ProQuest Ebook Central, Warc etc.

A NEW REALITY IN USER SERVICES, AND THE CASE STUDY OF THE CENTRAL ECONOMICS LIBRARY

Universities and other institutions of higher education closed on 16 March 2020 and all academic activities were moved to the virtual environment. Higher education libraries faced a new reality almost overnight. Immediately after the lockdown, the Central Economics Library (CEL) was ready to face the situation that followed the declaration of the COVID-19 epidemic in Slovenia.

The parent institution (SEB LU) also responded immediately to the new situation and strengthened its presence in the online environment. In order to remain active and visible among students, the business community and the general public, it focused on three communication directions: SEB LU Helps (providing answers to frequently asked questions of all kinds, related to the operation of the institution during the epidemic); SEB LU Informs (providing information on the epidemic, study activities, etc.); SEB LU Contributes (sharing one's knowledge for the benefit of society).



The library was invited to actively participate in the SEB LU Contributes section. This was followed by a consideration of what content to offer to library users and in what form. Hence the idea of offering short presentations and trainings under the common title "CEL Outside the Library" was born. The first live broadcast in Slovene on Zoom platform took place on 20 March 2020. Under the slogan "How can I help you?" the library team introduced themselves and highlighted the services they can offer to users remotely.

After the first successful presentation, the team made a plan for further live broadcasts. They have decided to present content of interest to users on a regular basis, every weekend (mostly on Thursdays and Fridays). They started with presentations of basic information about the library and its online services, and gradually moved to thematic content and more sophisticated forms of training, with presentations of various electronic information resources and ways of information discovering. Several providers of e-resources from Slovenia and abroad also participated in the presentations and workshops. All presentations were very well attended. Among the presentations conducted by the CEL team, users were most interested in the training on remote access to information resources and citation according to the APA standard.

During the coronavirus pandemic in 2020, the library provided more than 50 live broadcasts on the Zoom platform with more than 600 participants.

As scholarly publisher, SEB LU distributes research publications such as scientific and professional monographs and the academic journal Economic and Business Review. Scientific and professional monographs disseminate research outcome and new findings of SEB LU researches.

Publishing production in 2020 includes many textbooks and also the scientific monograph *Prekarno delo: multidisciplinarna analiza* (Precarious Work: A Multidisciplinary Analysis). The monograph presents an in-dept legal and economic analysis of the various forms of work that are considered precarious. The book was co-published by the Faculty of Law of the University of Ljubljana.



ECONOMICS AND BUSINESS REVIEW (EBR)

Economic and Business Review is a double-blind peer-reviewed open access journal that aims to promote research and dissemination of research results in the area of applied business and economic studies, including various fields of economic research, banking and financial management, business informatics, entrepreneurship, international business, management and marketing.

The EBR is indexed as of 2018 in the Academic Journal Guide (AJG/ABS).

EBR volume 22 (2020) consists of 15 English and 8 Slovenian articles written by the researchers and doctoral students from Slovenia and abroad.

NO. 1

Angelovska, M., Valentinčič, A. (2020). Determinants of Cash Holdings in Private Firms: The Case of the Slovenian SMEs. *EBR*, 22(1), 5–36.

Ličen, M. (2020). Long-Term Auditor-Client Relationships: Conscious Misjudgements or Unconscious Biases? *EBR*, 22(1), 37–67.

Kia, A., Sotomayor, M. (2020). Determinants of Inflation in Egypt and Mexico: An Empirical Evidence. *EBR*, 22(1), 69–104.

Rostan, P., Rostan, A. (2020). Where is Austria's Economy Heading? *EBR*, 22(1), 105–130.

Aguilar-Lopez, A., Kuhar, A. (2020). Analysis of Horizontal Price Transmission: The Case of Mexico–United States Dry Bean Trade. *EBR*, 22(1), 131–150.

NO. 2

Kapas, J. (2020). Formal and Informal Institutions, and FDI Flows: A Review of the Empirical Literature and Propositions for Further Research. *EBR*, 22(2), 161–189.

Božič, K., Dimovski, V. (2020). The Relationship between Business Intelligence and Analytics Use and Organizational Absorptive Capacity: Applying the DeLone & Mclean Information Systems Success Model. *EBR*, 22(2), 191–232.

Reiner, C., Kronenberg, C., Gassler, H. (2020). The Spatial Dimension of Entrepreneurship: Stylized Facts for the Case of Austria. *EBR*, 22(2), 233–259.

Stegovec, K., Črnigoj, M. (2020). Optimal Capital Structure and Leverage Adjustment Speed of European Public and Private Firms. *EBR*, 22(2), 261–288.

Bilynets, I., Knežević Cvelbar, L. (2020). Past, Present and Future of the Research on the Pro-Environmental Behaviour in Tourism: A Bibliometric Analysis. *EBR*, 22(2), 289–311.

NO. 3

Korica, P., Cirman, A., Žgajnar Gotvajn, A. (2020). Are We Reversing the Trend in Waste Generation: Panel Data Analyses of Municipal Waste Generation in Regard to the Socio-Economic Factors in European Countries. *EBR*, 22(3).

Meramveliotakis, G. (2020). Surveying the Methodological and Analytical Foundations of the New Institutional Economics: A Critical Comparison with Neoclassical and (Old) Institutional Economics. *EBR*, 22(3).

Debarliev, S., Janeska-Iliev, A., Ilieva, V. (2020). The Status Quo Bias of Students and Reframing as an Educational Intervention towards Entrepreneurial Thinking and Change Adoption. *EBR*, 22(3).

Colnar, S., Vlado Dimovski, V. (2020). Knowledge Management in Social Work: Management Support, Incentives, Knowledge Implementation, and Employee Empowerment. *EBR*, 22(3).

Stamatović, K., de Langen, P., Groznik, A. (2020). Revisiting the Cooperation Matrix for Classifying Cases of Port Cooperation – Case Study: Northern Adriatic Ports. *EBR*, 22(3).



RESEARCH CENTRE MEMBERS (2020)

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ON-GOING PROJECTS IN 2020

RESEARCH

FUNDING ENTITY	PROJECT REFERENCE	FELU PRINCIPAL INVESTIGATOR	TITLE OF PROJECT	PERIOD	FUNDING (EUR)
European Commission, H2020-MSCA-RISE-2016	734824	Katarina Katja Mihelič	GETM3 - Global Entrepreneurial Talent Management 3	2017 - 2021	130.410
CELSA Research Fund 2018	n.a.	Igor Lončarski	The content analysis perspective of sovereign credit ratings and corporate spillover effects	2018 - 2020	29.699
European Commission, ESPON - TENDER	EE/SO2/086/2019	Tanja Mihalič	Carrying capacity methodology for Tourism	2019 - 2020	81.200
European Commission, H2020-SC6-TRANSFORMATIONS-2018	822781	Jože Damijan	GROWINPRO - Growth Welfare Innovation Productivity	2019 - 2022	140.000
European Commission, H2020-SC6-TRANSFORMATIONS-2018	822259	Tjaša Redek	GLOBALINTO - Capturing the value of intangible assets in micro data to promote the EU's growth and competitiveness	2019 - 2022	417.120
European Commission, H2020-SC6-TRANSFORMATIONS-2019	870702	Marko Pahor	HECAT - Disruptive Technologies Supporting Labour Market Decision Making	2020 - 2023	415.022,50
European Commission, H2020-MSCA-RISE-2019	873077	Vlado Dimovski	MAIA - Models and Methods for an active ageing workforce: an international academy	2020 - 2023	85.000
European Union, European Regional Development Fund, INTERREG V B - Adriatic Ionian	n.a.	Vlado Dimovski	SI4CARE - Social Innovation for integrated health CARE of ageing population in ADRION Region	2020 - 2023	460.573,85
European Commission, H2020-MSCA-NIGHT-2020	954337	Miha Škerlavaj	Humanities Rock! - Humans and Research	2020	1.250
ICF SA - TENDER	30831813	Mitja Kovač	Study on possible impacts of a revision of the CCD	2020	1.350
University of Barcelona - TENDER	n.a.	Tanja Istenič	Collaborate in the framework of the WELTRANSIM project and on the NTA project	2020 - 2021	10.000
University of Barcelona - TENDER	n.a.	Tanja Istenič	Collaboration in the framework of the project "Projecció de la sostenibilitat i l'adequació de les pensions: el model de microsimulació DyPes. 2019 LLAV 00071"	2020 - 2021	2.890
Slovenian Research Agency	J5-8231	Janez Prašnikar	When is blockholding growth enhanced?	2017 - 2020	253.332
Slovenian Research Agency	J5-9329	Peter Trkman	Business analytics and business models in supply chains	2018 - 2021	300.019
Slovenian Research Agency	J5-9332	Jože Damijan	How to speed up growth of Slovenian enterprises: Structural dinamisation, granularity, internationalisation and innovation	2018 - 2021	119.992
Slovenian Research Agency	J6-9396	Vlado Dimovski (at SEB LU)	Development of Social infrastructure and services for Community based long-term care	2018 - 2021	39.913
Slovenian Research Agency and Ministry of Labour, Family, Social Affairs and Equal Opportunities	V5-1741	Polona Domadenik (PI at SEB LU)	MAPA: Multidisciplinary Analysis of the PrecArious work ? legal, economic, social and health protection aspects	2018 - 2020	24.000
Slovenian Research Agency	J5-1782	Barbara Culiberg	Looking into the dark side of the triadic relationship in the sharing economy	2019-2022	299.994
Slovenian Research Agency	J5-1783	Ljubica Knežević Cvelbar	Pro-environmental behavior in tourism	2019-2022	112.376
Slovenian Research Agency	J5-1792	Rok Spruk (PI at SEB LU)	Law of debtors and creditors-a normative and empirical legal analysis	2019-2022	30.004
Slovenian Research Agency	J7-1823	Irena Ograjenšek (PI at SEB LU)	Analysis of territorial and social impacts of the urban tourism and its territorial governance: the cases of Ljubljana, Graz and Maribor	2019-2022	42.962
Slovenian Research Agency	J7-1821	Igor Lončarski (PI at SEB LU)	Legal and economic analysis of regulatory changes as a consequences of ageing of population	2019-2022	29.973
Slovenian Research Agency	J5-1784	Vlado Dimovski (PI at SEB LU)	Creating social value with age-friendly housing stock management in lifetime neighborhoods	2019-2022	26.660

Slovenian Research Agency	N5-0082	Jože Damijan	"Firm- level hubs and impact of granularity on the propagation of shocks and aggregate output fluctuations in a small open economy "	2018-2021	234.273
Slovenian Research Agency	N5-0084	Vesna Žabkar	Navigating Brand Preference through Consumers Stereotypes	2018-2021	234.273
Slovenian Research Agency	N5-0097	Sašo Polanec	Understanding the weak relationship between firm size and productivity	2019-2022	282.381
Slovenian Research Agency	J5-2555	Matej Černe	Organizational Design in Digital Era	2020-2023	150.031
Slovenian Research Agency	J5-2554	Igor Iončarski	Quantitative and qualitative analysis of the unregulated corporate financial reporting	2020-2023	91.745
Slovenian Research Agency	J6-2573	Tamara Pavasović Trošt (PI at SEB LU)	Schools and Imperial, National, and Transnational Identifications: Habsburg Empire, Yugoslavia, and Slovenia	2020-2023	20.851

BILATERAL RESEARCH PROJECTS

FUNDING ENTITY	PROJECT REFERENCE	COUNTRY	FELU PRINCIPAL INVESTIGATOR	TITLE OF PROJECT	PERIOD
Slovenian Research Agency	BI-ME/18-20-025	Montenegro	Vlado Dimovski	Sustainability initiatives in education in Montenegro and Slovenia	2018 - 2020
Slovenian Research Agency	BI-US/18-20-036	US	Alenka Vrbinc	The Practice of Normative Labeling in Slovenian and American Lexicography	2018 - 2020
Slovenian Research Agency	BI-US/18-20-063	US	Maja Konečnik Ruzzier	BRANDING STRATEGIES IN STARTUPS	2018 - 2020
Slovenian Research Agency	BI-US/18-20-076	US	Mateja Kos Koklič	Determinants and consequences of sustainable consumption of apparel in Slovenia	2018 - 2020
Slovenian Research Agency	BI-US/19-21-098	US	Maja Konečnik Ruzzier	Consumer-brand relationship: brand hate	2019-2021
Slovenian Research Agency	BI-AT/20-21-031	Austria	Irena Ograjenšek	Learning and re-emerging of failed entrepreneurs in Austria and Slovenia	2020-2021
Slovenian Research Agency	BI-HR/20-21-045	Croatia	Anton Manfreda	Comparative Analysis of Trends and Success Factor for smart cities Development in Slovenia and Croatia	2020-2021
Slovenian Research Agency	BI-HR/20-21-034	Croatia	Tamara Pavasović Trošt	Comparison of national and religious identities of secondary school students in Croatia and Slovenia	2020-2021

INTERNAL PROJECTS

Principal Investigator	Project Title	Period
Matej Černe	Humanizing Innovation in Digital Work (HUMINNO)	2018 -2021
Ljubica Knežević Cvelbar	Pro-environmental behavior of tourists	2018 -2020
Rok Spruk	What 5 Billion Regressions Say About the Effects of Transaction Costs on Firm-Level Innovation?	2018 -2020
Vesna Žabkar	Comparison of conceptualizations of perceived value and the role of perceived value, risk and trust in consumer brand choices	2018 -2021
Jaka Cepec	Ex post and ex ante efficiency of insolvency proceedings in Slovenia - an empirical study	2018 -2020
Tanja Istenič	Decomposition of expenditures for prescription pharmaceuticals in Slovenia in the period 2008-2018 as a basis for analyzing growth factors and for forecasting expenditures in the light of an aging population	2019 -2022
Robert Kaše	The role of peer groups in executive compensation	2019 -2021
Miha Škerlavaj	Innovation universes: Seeking balance between stability and change in innovation product portfolios	2019 -2021
Mateja Drnovšek	Customer engagement behavior: conceptualization and scale development	2019 -2022

CONSULTANCY

In 2020, SEB LU had 4 on-going consultancy projects with the following institutions:

Funding entity

- Ministry of Foreign Affairs
- SPIRIT Slovenia - Public Agency for Entrepreneurship, Internationalization, Foreign Investments and Technology
- Slovenian Chamber of Commerce
- Re-forma, research and development, Ltd.

PUBLICATIONS IN 2020

JOURNAL ARTICLES (94)

PREMIUM CATEGORY – A* JOURNALS (11)

1. **Mihalič, T.** (2020). Conceptualising overtourism: a sustainability approach. *Annals of Tourism Research*, 84, 103025.
2. Viglia, G., **Dolnicar, S.** (2020). A review of experiments in tourism and hospitality. *Annals of Tourism Research*, 80, 102858.
3. **Dolnicar, S.** (2020). Designing for more environmentally friendly tourism. *Annals of Tourism Research*, 84, 102933.
4. Halužan, M., **Verbič, M., Zorič, J.** (2020). Performance of alternative electricity price forecasting methods: findings from the Greek and Hungarian power exchanges. *Applied energy*, 277, 115599.
5. **Dolšak, J., Hrovatin, N., Zorič, J.** (2020). Factors impacting energy-efficient retrofits in the residential sector: the effectiveness of the Slovenian subsidy program. *Energy and buildings*, 229, 110501.
6. **Kokol-Bukovšek, D.,** Košir, T., **Mojškerc, B.,** Omladič, M. (2020). Asymmetric linkages: maxmin vs. reflected maxmin copulas. *Fuzzy sets and systems*, 393, 75-95.
7. Andresen, M., Apospori, E., **Kaše, R.,** et al. (2020). Careers in context: an international study of career goals as mesostructure between societies' career-related human potential and proactive career behaviour. *Human resource management journal*, 30(3), 365-391.
8. **Kaše, R.,** Dries, N., Briscoe, J. P., et al. (2020). Career success schemas and their contextual embeddedness: a comparative configurational perspective. *Human resource management journal*, 30(39), 422-440.
9. Manzoni, L., Bartoli, A., **Castelli, M.,** Gonçalves, I., Medvet, E. (2020). Specializing context-free grammars with a (1+1)-EA. *IEEE transactions on evolutionary computation*, ISSN 1089-778X. [Print ed.], Oct. 2020, vol. 24, iss. 5, str. 960-973.
10. **Pustovrh, A., Rangus, K., Drnovšek, M.** (2020). The role of open innovation in developing an entrepreneurial support ecosystem. *Technological forecasting and social change*, 152, 119892.
11. **Dolnicar, S.,** Juvan, E., Grün, B. (2020). Reducing the plate waste of families at hotel buffets - a quasi-experimental field study. *Tourism management*, 80, 104103.

TOP TIER – A JOURNALS (21)

12. Raglio, A., Imbriani, M., Imbriani, C., **Castelli, M.,** et al. (2020). Machine learning techniques to predict the effectiveness of music therapy: a randomized controlled trial. *Computer methods and programs in biomedicine*, 185, 1051060.
13. Babakhani, N., Randle, M., **Dolnicar, S.** (2020). Do tourists notice social responsibility information?. *Current issues in tourism*, 23(5), 559-571.
14. Janša, T., Wattanacharoensil, W., **Kolar, T.** (2020). Computer supported analysis of Thailand's imagery on Pinterest. *Current issues in tourism*, 23(15), 1833-1839.
15. **Benitez, J.,** Ruiz, L., Castillo, A., Llorens, J. (2020). How corporate social responsibility activities influence employer reputation: the role of social media capability. *Decision support systems*, 129, 113223.
16. Lin, J., Li, L., Luo, X., **Benitez, J.** (2020). How do agribusinesses thrive through complexity?: the pivotal role of e-commerce capability and business agility. *Decision support systems*, 135, 113342.
17. **Foye, J., Valentinčič, A.** (2020). Testing factor models in Indonesia. *Emerging markets review*, 42, 100628.
18. Braojos, J., **Benitez, J.,** Llorens, J., Ruiz, L. (2020). Impact of IT integration on the firm's knowledge absorption and desorption. *Information & Management*, 27(5), 103290.
19. **Benitez, J.,** Henseler, J., Castillo, A., Schuberth, F. (2020). How to perform and report an impactful analysis using partial least squares: guidelines for confirmatory and explanatory IS research. *Information & Management*, 57(2), 103168.
20. Palvia, P., **Benitez, J.,** Liang, T.-P., Chau, P. Y. K. (2020). Tribute to professor Edgar H. Sibley and his contributions to the IS discipline. *Information & Management*, 57(15), 103321.
21. Hajibaba, H., Grün, B., **Dolnicar, S.** (2020). Improving the stability of market segmentation analysis. *International journal of contemporary hospitality management*, 32(4), 1393-1411.
22. **Balas Rant, M.** (2020). Sustainable development goals (SDGs), leadership, and Sadhguru: self-transformation becoming the aim of leadership development. *The international journal of management education*, 18(3), 100426.

23. Calzavara, M., Battini, D., **Bogataj, D.,** Sgarbossa, F., Zennaro, I. (2020). Ageing workforce management in manufacturing systems: state of the art and future research agenda. *International Journal of Production Research*, 58(3), 729-747.
24. **Bodlaj, Mateja,** Kadič-Maglajlić, S., **Vida, I.** (2020). Disentangling the impact of different innovation types, financial constraints and geographic diversification on SMEs' export growth. *Journal of business research*, 108, 466-475.
25. Rašković, M., **Zhonghui, D.,** Hirose, M., **Žabkar, V.,** Fam, K.-S. (2020). Segmenting young-adult consumers in East Asia and Central and Eastern Europe - the role of consumer ethnocentrism and decision-making styles. *Journal of business research*, 108, 496-507.
26. **Kolbl, Ž.,** Diamantopoulos, A., Arslanagić-Kalajdžić, M., **Žabkar, V.** (2020). Do brand warmth and brand competence add value to consumers?: a stereotyping perspective. *Journal of business research*, 118, 346-362.
27. **Kolar, T.,** Wallanchalee, W. (2020). One does not simply ... project a destination image within a participatory culture. *Journal of destination marketing & management*, 18, 100494.
28. Gerbin, A., **Drnovšek, M.** (2020). Knowledge-sharing restrictions in the life sciences: personal and context-specific factors in academia-industry knowledge transfer. *Journal of knowledge management*, 24(7), 1533-1557.
29. **Kokol-Bukovšek, D.,** Košir, T., **Mojškerc, B.,** Omladič, M. (2020). Relation between non-exchangeability and measures of concordance of copulas. *Journal of mathematical analysis and applications*, 487(1), 123951.
30. **Rant, V., Mrak, M., Marinč, M.** (2020). The Western Balkans and the EU budget: the effects of enlargement. *Journal of Southeast European & Black Sea studies*, 20(3), 431-453.
31. **Mendling, J.,** Pentland, B. T., Recker, J. (2020). Building a complementary agenda for business process management and digital innovation. *European journal of information systems*, 29(3,), 208-219.
32. Babakhani, N., Lee, A., **Dolnicar, S.** (2020). Carbon labels on restaurant menus: do people pay attention to them?. *Journal of sustainable tourism*, 28(1), 63-68.

CATEGORY B (48)

33. Polyvyanyy, A., Solti, A., Weidlich, M., Di Ciccio, C., **Mendling, J.** (2020). Monotone precision and recall measures for comparing executions and specifications of dynamic systems. *ACM transactions on software engineering and methodology*, 29, 17.
34. **Castelli, M., Groznik, A., Popovič, A.** (2020). Forecasting electricity prices: a machine learning approach. *Algorithms*, 13(5), 119.
35. **Lenassi, N.,** Paolucci, S. (2020). Italian and Slovenian economics and business vocabulary: anglicisms as citation loans and semantic calques. *Annales*, 30(3), 485-498.
36. **Peljhan, D., Zajc Kejžar, K., Ponikvar, N.** (2020). Ownership structure and firm exit routes. *Applied economics*, 52(15), 1671-1686.
37. Sever, I., **Verbič, M.,** Klarić Sever, E. (2020). Estimating attribute-specific willingness-to-pay values from a health care contingent valuation study: a best-worst choice approach. *Applied health economics and health policy*, 18(1), 97-107.
38. Lapa, P., **Castelli, M.,** Gonçalves, I., Sala, E., Rundo, L. (2020). A hybrid end-to-end approach integrating conditional random fields into CNNs for prostate cancer detection on MRI. *Applied sciences*, 10(1), 336.
39. Kandel, I., **Castelli, M.** (2020). A novel architecture to classify histopathology images using convolutional neural networks. *Applied sciences*, 10(8), 2929.
40. Kandel, I., **Castelli, M.** (2020). How deeply to fine-tune a convolutional neural network: a case study using a histopathology dataset. *Applied sciences*, 10(10), 3359.
41. Abdelaziz, A., Anastasiadou, M., **Castelli, M.** (2020). A parallel particle swarm optimisation for selecting optimal virtual machine on cloud environment. *Applied sciences*, 10(18), 6538.
42. Kandel, I., **Castelli, M.** (2020). Transfer learning with convolutional neural networks for diabetic retinopathy imageclassification: a review. *Applied sciences*, ISSN 2076-3417, 10(6), 2021.
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PUBLICATIONS IN 2020 CONTRIBUTING TO SDGS

PUBLICATION	TYPE	SDGS
Mihalič, T. (2020). Conceptualising overtourism: a sustainability approach. <i>Annals of Tourism Research</i> , 84, 103025.	Article A*	11, 12
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Marot, N., Klepej, D., Ograjenšek, I. , Perviz, L. , Uršič, M., Horvat, U. (2020). <i>Mestni turizem in COVID-19</i> . Ljubljana: UL, Biotehniška fakulteta.	Report, Study	11

DOCTORAL DISSERTATIONS DEFENDED IN 2020

NAME AND SURNAME	DATE OF DEFENCE	MENTOR	TITLE OF DOCTORAL DISSERTATION	TRACK/MAJOR
Črt Lenarčič	30.01.2020	prof. dr. Igor Masten	Pojasnjevanje dejavnikov inflacije z dinamičnim stohastičnim modelom splošnega ravnotežja (Explaining inflation factors with a dynamic stochastic general equilibrium model).	Economics/Economics
Ivan Rubinič	10.02.2020	prof. dr. Maks Tajnikar	Dinamika ekonomske neenakosti v državah evro območja na temelju marksistične teorije izkoriščanja (The dynamics of economic inequality in euro area based on the Marxist theory of exploitation)	Economics/Economics
Bruno Škrinajrič	27.02.2020	prof.dr. Polona Domadenik	Ključne kompetence diplomantov na področju ekonomskih in poslovnih ved (Key competencies of economics and business administration graduates)	Economics/Economics
Monika Klun	11.03.2020	prof. dr. Peter Trkman/prof. dr. Michael Leyer	Procesna usmerjenost posameznika v managementu poslovnega procesa (Individual process-orientation in business process management)	Business/Information Management
Iskra Sokolovska	11.03.2020	prof. dr. Aleksandar Kešeljevič	Analiza dvojne dividende z vidika javnih in zasebnih financ (The analysis of the double dividend from the perspective of public and private finance)	Economics/Economics
Miha Dominko	30.03.2020	prof. dr. Miroslav Verbič	Subjektivna blaginja starejše populacije (Subjective well-being of the elderly population)	Economics/Economics
Simon Colnar	7.05.2020	prof. dr. Vlado Dimovski/doc. dr. Tamara Pavasovič Trošt.	Obseg in učinkovitost managementa znanja v centrih za socialno delo v Republiki Sloveniji (Extent and effectiveness of knowledge management in social work centers in the Republic of Slovenia).	Business/Management and Organization
Matevž Skočir	30.06.2020	izr. prof. dr. Igor Lončarski	Uporaba večfaktorskih modelov donosnosti naložb pri vrednotenju podjetij (The Use of Multi-Factor Asset Pricing Models in the Corporate Valuation).	Business/Financial Management
Iris Koleša	29.09.2020	izr. prof. dr. Anže Burger/izr. prof. dr. Gregor Pfajfar	Management napotitev na delo v tujino kot dejavnik internacionalizacije podjetij (Managing international assignments as a factor in firm internationalisation)	Business/International Business
Janez Dolšak	29.09.2020	prof. dr. Nevenka Hrovatin	Analiza obnašanja uporabnikov na energetskih trgih s poudarkom na energetske učinkovitosti (Analysing behaviour of consumers in energy markets with emphasis on energy efficiency)	Economics/Economics
Andrej Kuštrin	9.10.2020	prof.dr. Igor Masten	Dinamični stohastični modeli splošnega ravnotežja in njihova uporaba (Dynamic stochastic general equilibrium models and their applications)	Economics/Money and Finance
Vladimir Bukvič	19.11.2020	prof. dr. Metka Tekavčič/prof. dr. Janez Prašnikar	Vpliv investicijske sposobnosti slovenskih podjetij na uspešnost njihovega poslovanja (Impact of the investment ability of the Slovenian companies on their performance)	Business/Management and Organization
Kristijan Stamatović	17.12.2020	prof. dr. Aleš Groznik	Analiza dejavnikov in trendov rasti ter konkurenčnosti pristanišč v severnojadranski regiji (The analysis of port growth factors and recent trends in port competition in the Northern Adriatic region)	Business/Operations Research and Business Logistics

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